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OM nucleic - nucleic search, using sw model

Run on: May 22, 2004, 17:06:13 ; Search time 109 Seconds  
(without alignments)  
9418.891 Million cell updates/sec

Title: US-09-668-482-3  
Perfect score: 1850  
Sequence: 1 TGTGCGCGTTGCTGTCGGTT.....GTTCTTACAAAAA 1850

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:\*  
1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1850	100.0	1850	3	US-08-724-466B-3
2	1850	100.0	1850	4	US-08-882-164D-3
3	625.4	33.8	1725	4	US-08-882-164D-31
4	608.6	32.9	1494	3	US-08-724-466B-5
5	608.6	32.9	1494	4	US-08-882-164D-5
6	297.8	16.1	337	3	US-08-724-466B-1
7	297.8	16.1	337	4	US-08-882-164D-1
8	175.6	9.5	351	3	US-08-724-466B-11
9	175.6	9.5	351	4	US-08-882-164D-11
10	170	9.2	4164	4	US-08-882-164D-38
11	124.4	6.7	2677	4	US-08-882-164D-36
12	72	3.9	683	4	US-08-882-164D-37
13	69.4	3.8	1192	4	US-09-583-447A-9
14	69.4	3.8	1633	4	US-09-583-447A-7
15	69.4	3.8	1659	4	US-09-583-447A-1
16	69.4	3.8	1973	4	US-09-583-447A-11
17	68.2	3.7	1512	4	US-08-277-031B-4
18	68.2	3.7	2759	4	US-09-144-367-1
19	67.8	3.7	1608	2	US-08-622-166A-1
20	65	3.5	2059	4	US-09-023-655-1062
21	60.8	3.3	3755	4	US-09-302-620B-87
22	60.8	3.3	3755	4	US-09-912-161-9
23	60.8	3.3	3948	4	US-09-302-620B-86
24	60.8	3.3	3948	4	US-09-912-161-8
25	60.8	3.3	3948	4	US-09-911-781-1
26	59.6	3.2	1515	4	US-09-583-447A-3
27	58	3.1	319	4	US-08-882-164D-35

C	28	58	3.1	7218	1	US-08-232-463-14	Sequence 14, Appl
C	29	53.8	2.9	531	4	US-09-583-447A-36	Sequence 36, Appl
	30	53.8	2.9	1349	4	US-09-583-447A-5	Sequence 5, Appl
	31	53.4	2.9	1762	3	US-09-292-768-63	Sequence 63, Appl
	32	52.6	2.8	3668	4	US-09-302-620B-89	Sequence 89, Appl
	33	52.6	2.8	3668	4	US-09-912-161-11	Sequence 11, Appl
	34	51.8	2.8	1762	3	US-08-881-784-5	Sequence 5, Appl
	35	51.8	2.8	1762	3	US-09-292-768-1	Sequence 1, Appl
	36	51.8	2.8	1762	3	US-09-292-768-65	Sequence 65, Appl
	37	50.6	2.7	1707	4	US-09-023-655-1060	Sequence 1060, Ap
	38	50.2	2.7	1762	3	US-09-172-339-5	Sequence 5, Appl
	39	48.2	2.6	804	4	US-09-464-535-29	Sequence 29, Appl
	40	47.8	2.6	3900	4	US-09-302-620B-88	Sequence 88, Appl
	41	47.8	2.6	3900	4	US-09-912-161-10	Sequence 10, Appl
	42	46	2.5	1746	1	US-08-201-118-2	Sequence 2, Appl
	43	46	2.5	1746	2	US-08-238-821B-2	Sequence 2, Appl
	44	46	2.5	1746	4	US-09-023-655-1059	Sequence 1059, Ap
	45	46	2.5	1746	5	PCT-US95-05744-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1  
US-08-724-466B-3  
; Sequence 3, Application US/08724466B  
; Patent No. 6063606  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; ZIP: M5L 1A9  
; COUNTRY: Canada  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/724,466B  
; FILING DATE: October 1, 1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00004  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1850 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-724-466B-3

Query Match 100.0%; Score 1850; DB 3; Length 1850;  
Best Local Similarity 100.0%; Pred.No. 0;  
Matches 1850; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TGTGCGCGTTGCTGTCGGTTGTCGACGCTGCTCCTCCTCAGAGCTGTTTCG 60  
Db 1 TGTGCGCGTTGCTGTCGGTTGTCGACGCTGCTCCTCCTCAGAGCTGTTTCG 60  
Qy 61 TTTTGGCGATCAGTTGCGGCTTCAACATGGGGCTGTACACCCCTATGGTACCTTTCTC 120

Db 61 TTTTGGCGATCAGTTGGCGGCTTCAACATGGGGCTGTACACCTTATGGTCACTTTCTC 120  
QY 121 TGCACCATCGTGTACCCGTTTACTCTTTCTGCGCGGTGAAGTTGTGGAGATGTTA 180  
Db 121 TGCACCATCGTGTACCCGTTTACTCTTTCTGCGCGGTGAAGTTGTGGAGATGTTA 180  
QY 181 ATGATCCGACGAGTCGATCCGAACTCGAGAAGTCTCTACCGCAGGTACCATGGCTTG 240  
Db 181 ATGATCCGACGAGTCGATCCGAACTCGAGAAGTCTCTACCGCAGGTACCATGGCTTG 240  
QY 241 CCGTTTCATTTGGAGAAACGCTCCAGCTGATCTCCAGAGAAGGATTTTCTGCGCATGAA 300  
Db 241 CCGTTTCATTTGGAGAAACGCTCCAGCTGATCTCCAGAGAAGGATTTTCTGCGCATGAA 300  
QY 301 CGGCAGAAATACCGGTGCATCTACAAGACGCACCTCTTCGGGAACCCGACTGTCAAGTG 360  
Db 301 CGGCAGAAATACCGGTGCATCTACAAGACGCACCTCTTCGGGAACCCGACTGTCAAGTG 360  
QY 361 ATGGGAGCTGATAATGTGAGGAGATTTCTGCTGGGGAACACACAGCTGGTCTGTTTAC 420  
Db 361 ATGGGAGCTGATAATGTGAGGAGATTTCTGCTGGGGAACACACAGCTGGTCTGTTTAC 420  
QY 421 TGGCCAGCATCAGTGAGAACCATCTGCGGTCTGACACCTCTCCAATGTCATGGAGTT 480  
Db 421 TGGCCAGCATCAGTGAGAACCATCTGCGGTCTGACACCTCTCCAATGTCATGGAGTT 480  
QY 481 CAACACAAAAACAAGAAAAAGGCATTAATGAGGGGCTTCTCTCGAGATGCTCTGGAGCAC 540  
Db 481 CAACACAAAAACAAGAAAAAGGCATTAATGAGGGGCTTCTCTCGAGATGCTCTGGAGCAC 540  
QY 541 TACATTCGCGTGATCCAGCAGGAGGTGAAGAGCGCCATACAGGATGGCTGCAAAAAGAC 600  
Db 541 TACATTCGCGTGATCCAGCAGGAGGTGAAGAGCGCCATACAGGATGGCTGCAAAAAGAC 600  
QY 601 TCCTGCGTGCTGGTTTATCCAGAAATGAAGAACTCATGTTTCGGATAGCTATGAGATC 660  
Db 601 TCCTGCGTGCTGGTTTATCCAGAAATGAAGAACTCATGTTTCGGATAGCTATGAGATC 660  
QY 661 CTGCTTGGTTTGAACAGAGCAAAATGAAGCGGACGAGCAAGAACTGGTGAAGCTTTT 720  
Db 661 CTGCTTGGTTTGAACAGAGCAAAATGAAGCGGACGAGCAAGAACTGGTGAAGCTTTT 720  
QY 721 GAGGAATGATCAAAAATTTGTTCTCCTTGCCAATCGACGTTTCTCAGTGGTCTGTAC 780  
Db 721 GAGGAATGATCAAAAATTTGTTCTCCTTGCCAATCGACGTTTCTCAGTGGTCTGTAC 780  
QY 781 AGGGTTTGAAGGCGACGCAATTTCAATTCATCTCAAAATGAGGAAACATCAGGAAGAA 840  
Db 781 AGGGTTTGAAGGCGACGCAATTTCAATTCATCTCAAAATGAGGAAACATCAGGAAGAA 840  
QY 841 ATTCAAGATGACGACAAATGAAACGAAACAGAAATACAAAGACGCGCTTCAGCTGTTGATC 900  
Db 841 ATTCAAGATGACGACAAATGAAACGAAACAGAAATACAAAGACGCGCTTCAGCTGTTGATC 900  
QY 901 GAGAACAGCAGAGAAGTGAAGAACTTTAGTTTGCAGCGATGAAGAGCAGCTACA 960  
Db 901 GAGAACAGCAGAGAAGTGAAGAACTTTAGTTTGCAGCGATGAAGAGCAGCTACA 960  
QY 961 GAGCTTCTATTTGGAGTTCATGAACACCCGCGCAGCTGCAACCTCCTGCTGATGTTT 1020  
Db 961 GAGCTTCTATTTGGAGTTCATGAACACCCGCGCAGCTGCAACCTCCTGCTGATGTTT 1020  
QY 1021 CTGGGTCTGAACACAGAGTGGTGAGAGGTGAGAGAGGTTCAGGAGAGGTTGAA 1080  
Db 1021 CTGGGTCTGAACACAGAGTGGTGAGAGGTGAGAGAGGTTCAGGAGAGGTTGAA 1080  
QY 1081 ATGGGCATGATACACCTGGAAGGGCTTGAATGAGGCTGTTGGACGAGCTCAAGTAC 1140  
Db 1081 ATGGGCATGATACACCTGGAAGGGCTTGAATGAGGCTGTTGGACGAGCTCAAGTAC 1140  
QY 1141 ACTGGATGTGTGATTAAGAGACTCTTAGAATCAACCTCTGTTCCCGGAGGATTCAGA 1200

Db 1141 ACTGGATGTGTGATTAAGAGACTCTTAGAATCAACCTCTCTGTTCCCGGAGGATTCAGA 1200  
QY 1201 GTCGCACTCAAAACCTTTGAAATGGAATGGTTACCAATTCCTAAGGATGGAACGTCAAT 1260  
Db 1201 GTCGCACTCAAAACCTTTGAAATGGAATGGTTACCAATTCCTAAGGATGGAACGTCAAT 1260  
QY 1261 TACAGCATCTGTGACACGCCAGTGTGGCGACGCTTTTCCAAAACAAAGAGGAGTTCAG 1320  
Db 1261 TACAGCATCTGTGACACGCCAGTGTGGCGACGCTTTTCCAAAACAAAGAGGAGTTCAG 1320  
QY 1321 CCGGAGAGATTCATGAGCAAAAGCTGTGGAGACGGGTCCAGGTTTAACTACATCCCTTC 1380  
Db 1321 CCGGAGAGATTCATGAGCAAAAGCTGTGGAGACGGGTCCAGGTTTAACTACATCCCTTC 1380  
QY 1381 GGAGGAGATCCAGGATGTGTGGGCAAGAGTTCGCCAAAGTGTACTCAAGATCTTT 1440  
Db 1381 GGAGGAGATCCAGGATGTGTGGGCAAGAGTTCGCCAAAGTGTACTCAAGATCTTT 1440  
QY 1441 TTAGTTGAGTTAACCGCAGCATTTGCAATTGGATTTCTCTCAAAACGGACCCCGCAATGAA 1500  
Db 1441 TTAGTTGAGTTAACCGCAGCATTTGCAATTGGATTTCTCTCAAAACGGACCCCGCAATGAA 1500  
QY 1501 ACAGGCCGCACTATTTACCCAGTGGACAATCTCCCTACCAAAATTCAGTATGTGAGA 1560  
Db 1501 ACAGGCCGCACTATTTACCCAGTGGACAATCTCCCTACCAAAATTCAGTATGTGAGA 1560  
QY 1561 AATTAGCCTAACCGGAGCTTTGTACATATGTTTTTATTTTAGATGAACCTGTGATGTTG 1620  
Db 1561 AATTAGCCTAACCGGAGCTTTGTACATATGTTTTTATTTTAGATGAACCTGTGATGTTG 1620  
QY 1621 GATATTTCTATTTTGTATATAAAGCAGATGTGTATATAAGTCTATGCGAAGCGA 1680  
Db 1621 GATATTTCTATTTTGTATATAAAGCAGATGTGTATATAAGTCTATGCGAAGCGA 1680  
QY 1681 AAACGAGGCACTACTTTCTCATGGATCACTGTAAATGTCACAGAGTCTGTGATGATA 1740  
Db 1681 AAACGAGGCACTACTTTCTCATGGATCACTGTAAATGTCACAGAGTCTGTGATGATA 1740  
QY 1741 TTTATAATGTAGTTGTGTATATAGCTTTTGTACTGTATGCAACTTATTTAAGTCTCT 1800  
Db 1741 TTTATAATGTAGTTGTGTATATAGCTTTTGTACTGTATGCAACTTATTTAAGTCTCT 1800  
QY 1801 TTATCTCATGGGTTTTTATTTAATAAAACATGTTCTTACAAAAA 1850  
Db 1801 TTATCTCATGGGTTTTTATTTAATAAAACATGTTCTTACAAAAA 1850

RESULT 2

US-08-882-164D-3  
; Sequence 3, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5L 1A9  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546

; FILING DATE: June 21, 1996
; APPLICATION NUMBER: 08/724,466
; FILING DATE: October 1, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Hunt, John C.
; REGISTRATION NUMBER: 36,424
; REFERENCE/DOCKET NUMBER: 50767/00010
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 863-4344
; TELEFAX: (416) 863-2653
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1850 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-882-164D-3

Query Match		100.0%;	Score 1850;	DB 4;	Length 1850;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 1850;	Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;
QY	1	TGTCGCGGTTGCTGCTCGGTTGCTGTCGGACGCTGTCTCCTCTCCAGAGCTGTTTTCG	60		
Db	1	TGTCGCGGTTGCTGCTCGGTTGCTGTCGGACGCTGTCTCCTCTCCAGAGCTGTTTTCG	60		
QY	61	TTTTGGCGATCAGTTGCGGCTTCAACATGGGGCTGTACACCCCTTATGGTCACCTTTC	120		
Db	61	TTTTGGCGATCAGTTGCGGCTTCAACATGGGGCTGTACACCCCTTATGGTCACCTTTC	120		
QY	121	TGCACATCGTGTACCCGTTTACTCTTCTCGCCGGTGAAGTTGGGAGATGTTA	180		
Db	121	TGCACATCGTGTACCCGTTTACTCTTCTCGCCGGTGAAGTTGGGAGATGTTA	180		
QY	181	ATGATCCGACGAGTCGATCCGAACTGCAAGTCTCTACCCGAGTACCATGGGCTTG	240		
Db	181	ATGATCCGACGAGTCGATCCGAACTGCAAGTCTCTACCCGAGTACCATGGGCTTG	240		
QY	241	CCGTTTCATTGGAGAAACGCTCCAGCTGATCTCCAGAGAAGGAAGTTTCTGCGCATGAA	300		
Db	241	CCGTTTCATTGGAGAAACGCTCCAGCTGATCTCCAGAGAAGGAAGTTTCTGCGCATGAA	300		
QY	301	CGGCAGAAATACGGGTGCATCTACAAGACGACCTCTTCGGGAACCCGACTCFCAGGGTG	360		
Db	301	CGGCAGAAATACGGGTGCATCTACAAGACGACCTCTTCGGGAACCCGACTCFCAGGGTG	360		
QY	361	ATGGAGCTGATAATGTGAGGAGATCTGCTGGGGGCAACACAAGCTGGTGTCTGTTT	420		
Db	361	ATGGAGCTGATAATGTGAGGAGATCTGCTGGGGGCAACACAAGCTGGTGTCTGTTT	420		
QY	421	TGGCCAGATCAGTGAGAACCATCTGGGCTGTGACACCTCTCCAAATGTCCATGGAGTT	480		
Db	421	TGGCCAGATCAGTGAGAACCATCTGGGCTGTGACACCTCTCCAAATGTCCATGGAGTT	480		
QY	481	CAACACAAAAAAGAGAAAGGCCATATAGGGCGTTCTCTCGAGATGCTCTGGAGCAC	540		
Db	481	CAACACAAAAAAGAGAAAGGCCATATAGGGCGTTCTCTCGAGATGCTCTGGAGCAC	540		
QY	541	TACATTCGCGTGATCCAGCAGGAGTGAAGAGCGCCATACAGGAATGGCTGCAAAAAGAC	600		
Db	541	TACATTCGCGTGATCCAGCAGGAGTGAAGAGCGCCATACAGGAATGGCTGCAAAAAGAC	600		
QY	601	TCCTGCGTGTGTTTATCCAGAAATGAAGAACTCATGTTTCGGATAGCTATGAGAATC	660		
Db	601	TCCTGCGTGTGTTTATCCAGAAATGAAGAACTCATGTTTCGGATAGCTATGAGAATC	660		
QY	661	CTGCTTGGTTTGAACAGCAATAAAGACGAGCAAGAACTGGTGGAACTTTT	720		
Db	661	CTGCTTGGTTTGAACAGCAATAAAGACGAGCAAGAACTGGTGGAACTTTT	720		
QY	721	GAGGAATGATCAAAAACTTGTCTCCTTGCCAAATCGACGTTTCTTTCAGTGGTCTGTAC	780		
Db	721	GAGGAATGATCAAAAACTTGTCTCCTTGCCAAATCGACGTTTCTTTCAGTGGTCTGTAC	780		

QY	781	AGGGTTTGAGGCGACGCAATTTCACTTCACTCCAAATTTGAGGBAAACATCAGGAAGAAA	840
Db	781	AGGGTTTGAGGCGACGCAATTTCACTTCACTCCAAATTTGAGGBAAACATCAGGAAGAAA	840
QY	841	ATTCAAGATGACGCAATGAAGAAACGAAACGAAATACAAAGACGCGCTTCAGCTGTTGATC	900
Db	841	ATTCAAGATGACGCAATGAAGAAACGAAACGAAATACAAAGACGCGCTTCAGCTGTTGATC	900
QY	901	GAGAACAGCAGAGAAGTGCAGAACCTTTAGTTTGGAGGCGATGAAAGAGCAGCTACA	960
Db	901	GAGAACAGCAGAGAAGTGCAGAACCTTTAGTTTGGAGGCGATGAAAGAGCAGCTACA	960
QY	961	GAGCTTCTATTTGGAGGTCATGAAACCCAGCCGACGCTGCAACCTTGTCTGATGTTT	1020
Db	961	GAGCTTCTATTTGGAGGTCATGAAACCCAGCCGACGCTGCAACCTTGTCTGATGTTT	1020
QY	1021	CTGGGTCGAAACACAGAAAGTGTGAGAGTCTGAGAGGAGGTTTTCAGGAGAGGTTGAA	1080
Db	1021	CTGGGTCGAAACACAGAAAGTGTGAGAGTCTGAGAGGAGGTTTTCAGGAGAGGTTGAA	1080
QY	1081	ATGGGCATGTATACACCTGGAAGGGCTTGAGTATGGAGCTGTTGGACCCAGCTGAAGTAC	1140
Db	1081	ATGGGCATGTATACACCTGGAAGGGCTTGAGTATGGAGCTGTTGGACCCAGCTGAAGTAC	1140
QY	1141	ACTGGATGTGTATTAAGAGACTCTTAGAATCAACCTCTCTGTTCCCGGAGGATTCAGA	1200
Db	1141	ACTGGATGTGTATTAAGAGACTCTTAGAATCAACCTCTCTGTTCCCGGAGGATTCAGA	1200
QY	1201	GTCCGACTCAAAACCTTTGAATGAATGGTTACCAATCTCTAAAGATGGAACGTCATT	1260
Db	1201	GTCCGACTCAAAACCTTTGAATGAATGGTTACCAATCTCTAAAGATGGAACGTCATT	1260
QY	1261	TACAGCATCTGTGACACGACGATGTGGCCGCGTCTTTCCAAACAAAGAGGATTCAG	1320
Db	1261	TACAGCATCTGTGACACGACGATGTGGCCGCGTCTTTCCAAACAAAGAGGATTCAG	1320
QY	1321	CCGGAGAGATTCATGAGCAAAAGTCTGGAGGAGGTTTAACTACATCCCTCTT	1380
Db	1321	CCGGAGAGATTCATGAGCAAAAGTCTGGAGGAGGTTTAACTACATCCCTCTT	1380
QY	1381	GGAGGAGATCCAGGATGTGTGGGCAAGAGTTCGCCAAAGTGTACTCAAGATCTTT	1440
Db	1381	GGAGGAGATCCAGGATGTGTGGGCAAGAGTTCGCCAAAGTGTACTCAAGATCTTT	1440
QY	1441	TTAGTTGAGTTAACCGACATTCGAATTTGATTTCTCTCAACCGGACCCCGACAAATGAAA	1500
Db	1441	TTAGTTGAGTTAACCGACATTCGAATTTGATTTCTCTCAACCGGACCCCGACAAATGAAA	1500
QY	1501	ACAGGCCGACTATTTACCCAGTGACAAATCTCCCTACCAATTCACCTAGTTATGTCAGA	1560
Db	1501	ACAGGCCGACTATTTACCCAGTGACAAATCTCCCTACCAATTCACCTAGTTATGTCAGA	1560
QY	1561	AAATTAGCCTAACCGGAGCTTTGACATATGTTTTTATTTAGATGAACCTGATGTTT	1620
Db	1561	AAATTAGCCTAACCGGAGCTTTGACATATGTTTTTATTTAGATGAACCTGATGTTT	1620
QY	1621	GATATTTCTATTTTGTATATAAAGCAGATGTGTATATAAGTCTATGCGAGGAAGCGA	1680
Db	1621	GATATTTCTATTTTGTATATAAAGCAGATGTGTATATAAGTCTATGCGAGGAAGCGA	1680
QY	1681	AAACGAGGCGACTACTTTCTCATGGATCACTGTAATGCTACAGAGTGTCTGTGATGATA	1740
Db	1681	AAACGAGGCGACTACTTTCTCATGGATCACTGTAATGCTACAGAGTGTCTGTGATGATA	1740
QY	1741	TTTAAATGTAGTTGTATATAGCTTTTGTACTGTATGCAACTTATTTAACTCGCTCT	1800
Db	1741	TTTAAATGTAGTTGTATATAGCTTTTGTACTGTATGCAACTTATTTAACTCGCTCT	1800
QY	1801	TTATCTCATGGGTTTATTTAAATAAACAATGTTCTTACAAAAAATAAATAA	1850
Db	1801	TTATCTCATGGGTTTATTTAAATAAACAATGTTCTTACAAAAAATAAATAA	1850



RESULT 3

US-08-882-164D-31  
; Sequence 31, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5L 1A9  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; APPLICATION NUMBER: 08/724,466  
; FILING DATE: October 1, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; TYPE: nucleic acid  
; LENGTH: 1725 base pairs  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-882-164D-31

Query Match 33.8%; Score 625.4; DB 4; Length 1725;  
Best Local Similarity 65.5%; Pred. No. 1e-185;  
Matches 965; Conservative 0; Mismatches 496; Indels 12; Gaps 3;

QY	87	CATGGGGCTGTACACCTTATGTGTCACCTTCTCTGACCATCGTGCTACCCGTTTACT	146
Db	24	CATGGGGCTCCCGCGCTGCTGGCCAGTGCCTCTGACCTTCGCTGCGCTGCTGCT	83
QY	147	CTTTCTCGCGCGGTGAAGTTGTGGGAGATGTTAATGATCCGACGAGTCGATCCGAAC	206
Db	84	CTTCCTGGCGCGCTCAAGCTCTGGGACCTGACTGTGTGAGCAGCGCGGATCGCAG	143
QY	207	CAGAACTCTTACCGCCAGGTACCATGGGCTTCCGTTTCATTGGAGAAACGTCAGCT	266
Db	144	CGCCCTCCCTTGGCCCCCGGTACCATGGGCTTCCCATCTTTGGGAAACATTGCAG	203
QY	267	GATCCTCCAGAGAAAGATTTCGCGCATGAACCGGAGAAATACGGGTGATCTACAA	326
Db	204	GGTGCTTCAGCGGAGGAAGTTTCTGCAGATGAAGCGCAGGAAATACGGCTTCATCT	263
QY	327	GACGCACCTTTCGGGAACCCGACTGTGAGGTGATGGAGCTGATTAATGTGAGGCAG	386
Db	264	GAGGCATCTGTTTGGCGGCCACCGGTGCGGTGATGGCGCGGATTAATGTGCGCGCA	323
QY	387	TCTGCTGGGGAACACAGCTGCTGCTGTTGAGTGGCCAGCATCAGTGAGAACCATCT	446
Db	324	CTTGCTGGGAGAGACACCGGTTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT	383

QY	447	GGGCTCTGACACCCCTCTCCATGTCCATGGAGTTCAACACAAAAACAAGAAAGGCCAT	506
Db	384	GGGCGTGGCTGCTCTCCAACTGACGATTCTCTCGCAACAAGCAGCAAGAGGTGAT	443
QY	507	TATGAGGGCGTTCTCTCGAGATGCTCTGGAGCATACTATCCCGTATCCAGCAGGAGT	566
Db	444	TATGAGGGCGTTCTAGCCGCGAGGCACTCCAGTGTAGTGTCTGCTGATCGCTGAGGA	503
QY	567	GAAGAGCGCCATACAGGAATGGCTGCAAAAAGACTCTCTGG---TGCTGGTTTATCC	623
Db	504	CAGCAGTTGTCTGGAGCAGTGGCTAAGCTGCGGCGCGGCGCTCTCTGGTCTACCC	563
QY	624	AATGAAGAAACTCATGTTTCGATAGCTATGAGAAATCTCTGCTTGGTTTGA-----	677
Db	564	GGTGAAGCGCCTCATGTTCCGCATGCCATGCCATGCCATCTCTGCTGGCTCGAGCC	623
QY	678	AGAGCAATAAAGACGGACGAGCAAGAACTGGTGGAGCTTTTGAGGAAATGATCAAAA	737
Db	624	AGCGGGCGCGGGAGGAGCAGCAACAGCTCGTGGAGGCTTTTCGAGGAGATGACCCG	683
QY	738	CTTGTCTCTTGGCAATCGAGTTCCTTTTCTAGTGGTCTGTACAGGGGTTTGAGGGC	797
Db	684	TCTCTTCTCTTCCCATTTGACGTGCCCTTAGCGGCTGTACCGGGCGGTGAAGGCG	743
QY	798	CAATTTTCATTCACTCCAAAATTCAGGAAACAT--CAGGAAGAAATTCAGATGACGA	854
Db	744	GAACCTTATACACGCGCGCATCGAGGAGACATTCGCGCAAGATCCGCGGCTTCAGG	803
QY	855	CAATGAACGAACAGAAATACAAAGACGCCCTTCAGTGTGTGATCGAGAAACAGCAGA	914
Db	804	TACAGAGCGGATGGGGTTGCAAGGACGCGTGCAGTCTCTGATGAGCCTCTCTTTGG	863
QY	915	AAGTGACGAACCTTTTAGTTTTCAGGGCGATGAAAGAACAGCTACAGAGCTTCTATT	974
Db	864	GAGGGAGAGAGGCTGGATATGAGGCACTTAAACAATCGTCAACAGAGCTCTCTTTGG	923
QY	975	AGGTCAATGAACACCGCCAGCACTGCAACCTCACTGTCTGTTTCTGGTCTGAACAC	1034
Db	924	TGCTCATGAAACTACAGCCAGTCTGCGACATCACTGATCACTTAGGACTCTACCC	983
QY	1035	AGAAGTGTGCAGAAAGTTCAGAGAGGAGTTTCAGGAGAGGTTGAAATGGGATGTAT	1094
Db	984	ACATGTCTCCAGAAAGTTTCGAGAAGAGATAAAGAGCAAGGGCTTACTTTGCAAG	1043
QY	1095	ACCTGGAAGGGCTTGTAGTATGAGTGTGAGCTGTTGGACCACTGAAAGTACACTG	1154
Db	1044	TCAAGACAAAGTTAGACATGAAACTTTGGAACAGCTTAAATACATTTGGTGTGTAT	1103
QY	1155	TAAAGAGACTCTTAGAATCAACCTCTCTGTTCCCGGAGGATTCAGAGTCCGACTCAA	1214
Db	1104	TAAAGAGACCTCGGATGAATCTCCGTTCCAGGAGGTTTCGGGTGCTCTGAAGAC	1163
QY	1215	CTTTGAATTGAATGGTTACCAATCTTAAAGATGGAAGTCACTTTACAGCATCTGTGA	1274
Db	1164	TTTGTAGCTGAATGGATACCAGATCCCCAGGGCTGGAATGTTTACAGTATCTGTGA	1223
QY	1275	CAGCACGATGTGGCCGACGTCTTTCCAAACAAAGAGAGTTCACCGCGGAGAGATTCA	1334
Db	1224	CACCCACGATGTGGCAGATATCTTCACTAACAGGAGGAATTTAATCCCGACCGCTT	1283
QY	1335	GAGCAAGGTCTGGAGACGGTCCAGGTTTAACTACATCCCTTCGGAGGAGGATCCAG	1394
Db	1284	AGTGCTCATCCAGAGGATGTTCCCGGTTCCAGCTTCACTTCCATTGGAGGAGCCCT	1343
QY	1395	GATGTGTGGGCAAGAGTTTCGCAAAAGTGTACTCAAGATCTTTTAGTTAGTTAAC	1454
Db	1344	GAGCTGTAGGCAAGAGTTTGAAGAAATCTTCTTAAGATATTACAGTGGAGCTGGC	1403
QY	1455	GCAGCATTCGAATTGGATTCTCTCAACCGGACCCCGCAAAATGAAACAGGCCGACTAT	1514
Db	1404	TAGGCACTGTGATTGGCAGCTTCTTAAATGGACCTCTTACAAATGAAGACAAGCC	1463
QY	1515	TTACCCAGTGGACAAATCTCCCTACCAAAATTCAC	1547

Db 1464 GTACCCCTGGACAATCTCCCTGCAAGATTCAAC 1496  
RESULT 4  
US-08-724-466B-5  
; Sequence 5, Application US/08724466B  
; Patent No. 6063606  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; ZIP: M5L 1A9  
; COUNTRY: Canada  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/724,466B  
; FILING DATE: October 1, 1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00004  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-724-466B-5

Query Match 32.9%; Score 608.6; DB 3; Length 1494;  
Best Local Similarity 64.7%; Pred. No. 1.7e-180;  
Matches 956; Conservative 0; Mismatches 509; Indels 12; Gaps 3;  
QY 88 ATGGGGCTGTACACCCCTTATGGTCACCTTTCTCTGCACCATCGTGTACCCGTTTACTC 147  
Db 1 ATGGGGCTCCCGCGCTGTGCGCCAGTCGGCTCTGCACCTTCTGCTGCGCTGCTGCTC 60  
QY 148 TTTCTCGCGCGGTGAAGTTGTGGAGATGTTAATGATCCGACGAGTCGATCCGAATGC 207  
Db 61 TTCTTGGCTGCGATCAAGCTCTGGGACCTGTACTGCGTGAGCGGCGCGACCGCAGTTGT 120  
QY 208 AGAAGTCCTCTACGCCCAGGTACCATGGGCTTGGCTTCATTTGGAGAAACGCTCCAGCTG 267  
Db 121 GCCCTCCCATTTGCCCCCGGACTATGGGCTTCCCCTTCTTTGGGAAACCTTGCAGATG 180  
QY 268 ATCTCCAGAGAGGAAGTTTCTGCGATGAAACCGCAGAAATACGGGTGCATCTACAAG 327  
Db 181 GTACTGCAGCGGAGGAAGTTCTGTCAGATGAAGCGCAGGAATACGGCTTCATCTACAAG 240  
QY 328 ACGACCTCTTCGGGAACCGGACTGTGAGGATGATGGAGCTGATTAATGTGAGGCAGATT 387  
Db 241 ACGCATCTGTTCCGGCGGCCACCGTACGGGTGATGGGCGGGAATGTGGGGGCATC 300  
QY 388 CTGCTGGCGCAACACAAGCTGGTGTCTGTTCAGTGGCCAGCATCAGTGAGACCATCTCTG 447  
Db 301 TTGCTCGAGACGACCGGCTGGTGTGCTGCTCCACTGGCCAGCGTGGTGGCCACCATTTCTG 360

QY 448 GGCTCTGACACCCCTCTCCAATGTCCATGGAGTTCAACACAAAAACAAGAAAAAGGCCATT 507  
Db 361 GGATCTGGCTGCTCTCTAACTGACGACTCTCTCGCACAAAGCAGCGCAAGAGTGATT 420  
QY 508 ATGAGGGCGCTTCTCTCGAGATGCTCTGGAGCACTACATTCCTCGTGTATCCAGCAGAGTG 567  
Db 421 ATCGGGGCTTACGCCCGGAGGCACTCGAATGTACGTGCGGTGATCACCAGGAAGTG 480  
QY 568 AAGAGCGCCATACAGGAATGGCTG---CAAAAAGACTCTCTCGTGTCTGTTTATCCAGAA 624  
Db 481 GGCAGCAGCCTGGAGCAGTGGCTGAGCTGCGGAGCGCGGCTCTCTGTTACCCGAG 540  
QY 625 ATGAAGAACTCATGTTTCGGATAGTATGAGAACTCTGCTGTTGTTTGAACC-----A 678  
Db 541 GTGAAGCGCTCATGTTCCGAATCGCCATCGCATCTCTGCTGCTGCTGCTGCTGCTGCTG 600  
QY 679 GAGCAATAAAGACGGACGAGCAAGAACTGTTGGAAGCTTTTGAGGAATGATCAAAAAC 738  
Db 601 GCGGGCGACGGGACTCCGAGCAGCAGCTTGTGAGGCGCTTCGAGGAATGACCCGCAAT 660  
QY 739 TTGTTCTCTTCCCAATCGACGTTCTCTTTCAGTGGTCTGTACAGGGGTTTACAGGACGC 798  
Db 661 CTCTTCTGCTGCCCATCGACGTCCTTCAGCGGCTGTACCGGGCATGAAGGCGCGG 720  
QY 799 AATTTCATTCACTCCAAAATGAGAAAAACATCAGGAAGAAATTTCAAG---ATGACGAC 855  
Db 721 AACCTCATTCAGCGGCGCATCGAGCAGAACTTCGCGCAAGATCTGCGGCTGCGGCA 780  
QY 856 AATGAAAAAGAAAGAAATACAAAGAGCGCCCTTCAGCTGTTGATCGAGAACAGCAGAGA 915  
Db 781 TCCGAGCGGCGGCGGCTGCAAGAGCGGCTGAGCTGTTGATCGAGCACTCGTGGGAG 840  
QY 916 AGTGACGAACCTTTTATGTTTCAGCGGCTGAAAGAGCAGCTTACAGAGCTTCTATTGGA 975  
Db 841 AGGGAGAGCGGCTGGACATCGAGGCACTAAAGCAATCTTCAACCGAACTCTCTTTGGA 900  
QY 976 GGTCTAAGAAACACCGCCAGCACTGCACTCACTGCTCATGTTCTGGTCTGAACACA 1035  
Db 901 GGACAGAAACACCGGCCAGTGCAGCCACATCTCTGATCATTTACCTGGGCTCTACCCA 960  
QY 1036 GAAGTGTGAGAGGTCAGAGAGGAGTTTCAGGAAGGTTTCAAGATGGGATGTATACA 1095  
Db 961 CATGTTCTCCAGAAAGTCCGAGAGAGCTGAAGAGTGAAGGTTTACTTTGCAAGAGCAAT 1020  
QY 1096 CCTGGAAGGGCTTGAGTATGAGCTGTTGGACCGCTGAAGTACACTGGATGTGTGATT 1155  
Db 1021 CAAGACAACAAGTTGGACATGGAATTTTGAACAACACTTAAATACATCGGTTGTATT 1080  
QY 1156 AAGAGACTCTTAGAATCAACCTCTCTTCCCGGAGGATTCAGAGTGGCACTCAAAACC 1215  
Db 1081 AAGGAGACCTTTCAGCTGAATCCCCAGTTCAGAGGGGTTTCGGGTTGCTCTGAAGACT 1140  
QY 1216 TTTGAATTGAATGGTTACCAATTCCTAAAGGATGGAACGTCATTTACAGCATCTGTGAC 1275  
Db 1141 TTTGAATTAAATGGATACCAAGATTCCTCAAGGCTGGAATGTTATCTACAGTATCTGTGAT 1200  
QY 1276 ACGCAGATGTGGCGACGCTCTTTCCAAACAAAGAGGATTCAGCCCGGAGAGATTCTATG 1335  
Db 1201 ACTCATGATGTGGCAGAGATCTTCACCAACAAGGAATTTAATCTGACCGCAATTCAGT 1260  
QY 1336 AGCAAGGTCTGGAGACGGGTCCAGGTTTAACTACTATCCCTTCGGAGGAGGATCCAGG 1395  
Db 1261 GCTCCTCACCAGAGGATGATCCAGGTTTCACTTCATTCATTTGGAGGAGGCTTAGG 1320  
QY 1396 ATGTGTGGGCAAGAGTTTCGCAAAAGTGTACTCAAGATCTTTTAGTTAGTTAAG 1455  
Db 1321 AGCTGTAGGCAAGAAATTTGCAAAATTTCTTCTCAAAATATTTACAGTGGAGCTGGCC 1380  
QY 1456 CAGCATTCGAATTTGATTTCTCTCAACCGGACCCCGGACAAATGAAACAGCCCGACTATT 1515  
Db 1381 AGGCATTGTGACTGGCAGCTTCTAAATGGACCTCTTACAAATGAAACCAAGTCCACCGTG 1440  
QY 1516 TACCAGTGGACAATCTCCCTACCAAAATTCAGTAGTT 1552

Db 1441 TATCCTGTGGACAATCTCCCTGCAAGATTCAACCAATT 1477

RESULT 5

US-08-882-164D-5  
; Sequence 5, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5L 1A9

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; APPLICATION NUMBER: 08/724,466  
; FILING DATE: October 1, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1494 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-08-882-164D-5

Query Match 32.9%; Score 608.6; DB 4; Length 1494;  
Best Local Similarity 64.7%; Pred. No. 1.7e-180;  
Matches 956; Conservative 0; Mismatches 509; Indels 12; Gaps 3;

QY 88 ATGGGCTGTACACCTTATGGTCACTCTCTGACCATCGTGTACCCGTTTACTC 147  
Db 1 ATGGGCTCCCGGCTGTGCGCCAGTGGCTCTGCACCTTCGCTGCTGCTGCTC 60  
QY 148 TTTCTCGCCCGGGAAGTTCTGGGAGATGTTAATGATCCGAGTCCGATCCGACTGC 207  
Db 61 TTCCTGGCTGGATCAAGCTCTGGGACCTGTACTGCTGAGCGGCGCGACCGCAGTTGT 120  
QY 208 AGAAGTCTCTACCCAGGTACCATGGGCTTCCGCTTATTGGAGAAACGCTCCAGCTG 267  
Db 121 GCCCTCCATTGCCCCCGGACTATGGGCTTCCCTTCTTTGGGAAACCTTGCAGATG 180  
QY 268 ATCTCCAGAGAAGGAAGTTTCTGCGCATGAACCGGAGAAATACGGGTGATCTACAAG 327  
Db 181 GTACTGACGGGAGGAAGTTCCCTGCAGATGAAGCGCAGGAATACGGCTTATCTACAAG 240  
QY 328 ACGCACCTCTTCGGGAACCCGACTGTGAGGTGATGGGAGCTGATAATGTGAGGCAGATT 387  
Db 241 ACGCATCTGTTCCGGCGGCCCAACCGTACCGGTGATGGCGGGGACAATGTGGCGGCATC 300  
QY 388 CTGCTGGCGGAACACAAGCTGGTGTCTGTTAGTGCCGACATCAGTGAGAACCATCTCTG 447

Db 301 TTGCTCGAGACGACCGGCTGGTGTGGTCCACTGGCCAGCGTGGTGGCCACATTCTG 360  
QY 448 GGCTCTGACACCTCTCCAATGTCCATGGAGTTCAACACAAAACAAAGAAAGGCCATT 507  
Db 361 GGATCTGGCTGCCCTCTTAACCTGACAGTCTCTCGACAAAGCGGCAAGAGGTGATT 420  
QY 508 ATGAGGGGCTTCTCTGAGATGCTCTGGAGCACTACATCCCGTCTGATCCAGCAGGAGTG 567  
Db 421 ATGCGGGCTTTCAGCGCGAGGCACTCGAATGTCTAGTCCCGGTGATCACCGAGGAAGTG 480  
QY 568 AAGAGCGCCATACAGGAATGGCTG---CAAAAAGACTCCTGCGTGTGTTTATCCAGAA 624  
Db 481 GGCAGCAGCTGGAGCAGTGGCTGAGCTGCGGCGAGCGCGCTCCTGGTCTACCCCGAG 540  
QY 625 ATGAAGAACTCATGTTTCGGATAGCTATGAGAATCCTGCTTGGTTTGAACC-----A 678  
Db 541 GTGAAGCGCTCATGTTCCGAATCGCCATGCGCATCTACTGGGTGCGAACCACCAACTG 600  
QY 679 GAGCAATAAAGACGGGACGAGCAAGAACTGTGGAAGCTTTTGAGAAATGATCAAAAAC 738  
Db 601 GCGGGCGACGGGACTCCGAGCAGCAGCTTGTGGAGGCTTCGAGGAAATGACCGCAAT 660  
QY 739 TTGTTCTCCTTCCCAATCGACGTTCTTTCATGTTCTGTCAGGGGTTTGAGGCGACGC 798  
Db 661 CTCTTCTGCTGCCATCGACGTTGCTTTCAGCGGCTTACCGGGCATGAAGCGCGG 720  
QY 799 AATTTCATCTCCAAAATTGAGGAAACATCAGGAAGAAATTTCAAG---ATGACGAC 855  
Db 721 AACTCATTCACGGCGCATCGAGCAGAACTTCGCGCCAAAGATCTCGGGCTGCGGCA 780  
QY 856 AATGAAAAACGAACAGAAATACAAAGACGCCCTTCAGCTGTGATCGAGAACAGCAGAAGA 915  
Db 781 TCCGAGGCGGCCAGGGCTGCAAGACGCGCTGAGCTGTTGATCGAGCACTCGTGGAG 840  
QY 916 AGTGACGAACCTTTTAGTTTCAGGGGATGAAGAAGCAGTACAGACTTCTATTGGA 975  
Db 841 AGGGAGAGCGGCTGGACATGACGAGCACTAAAGCAATCTTCAACCGAATCTCTTTGGA 900  
QY 976 GGTCAATGAACACCGCCAGCAGCTGCAACCTCACTGTCTGATGTTCTGGTCTGAACACA 1035  
Db 901 GGACAGAAACACCGCCAGTGCAGCCACATCTCTGATCACTTACCTGGGCTCTACCCA 960  
QY 1036 GAATGGTGCAGAAGGTTCAGAGAGGAGTTCAGGAGAGGTTGAATGGCATGTATACA 1095  
Db 961 CATGTTCTCCAGAAAGTGCAGAGAGCTGAAGAGTAAAGGTTTACTTTGCAAGAGCAAT 1020  
QY 1096 CCTGGAAGGGCTTGAATGAGCTGTTGGACCACTGTTGACCACTGAAGTACACTGTGATT 1155  
Db 1021 CAAGACAAAGTTGGACATGGAATTTTGAACACTTAATAATACATCGGCTGTGTTATT 1080  
QY 1156 AAAGAGACTCTTAGAATCAACCTCCTGTTCCCGGAGGATTCAGAGTCCGACTCAAAACC 1215  
Db 1081 AAGGAGACCTTTCGACTGAATCCCCAGTTCAGAGGGTTCCAGAGGGTTGCTCTGAAGACT 1140  
QY 1216 TTTGAATGAATGTTTACCAATTCCTAAAGGATGGAACGTCATTTACAGCATCTGTGAC 1275  
Db 1141 TTTGAATTAATGATATACCAAGTTCCTCAAGGGCTGGAATGTTTATCTACATCTGTGAT 1200  
QY 1276 ACGCAGATGTGGCGACGCTCTTTCACAAACAAAGAGAGTTCAGCCCGGAGAGATTCTATG 1335  
Db 1201 ACTCATGATGTGGCAGAGATCTTCAACCAACAAAGGAATTTAATCTGACCGATTCACT 1260  
QY 1336 AGCAAGGTCTGGAGGCGGTTCCAGGTTTAACTACATCCCTTCGGAGGAGGATCCAGG 1395  
Db 1261 GCTCCTCACCCAGAGATGATCCAGGTTTCAGCTTCACTCCATTGGAGGAGGCTTAGG 1320  
QY 1396 ATGTGTGTGGCAAGAGTTTCGCCAAAGTGTACTCAAGATCTTTTATTAGTTAGTTAAGC 1455  
Db 1321 AGCTGTGTAGGCAAGAAATTTGCAAAATTTCTTCTCAAAATATTACAGTGGAGCTGGCC 1380  
QY 1456 CAGCATTTGCAATTTGATTTCTCTCAACCGGACCCCGGACCAATGAAGAACAGGCCGACTATT 1515

Db 1381 AGGCATTGTGACTGGCAGCTTTAAATGGACCTCTTACAATGAATAACAGTCCACCGTG 1440  
QY 1516 TACCCAGTGGACAAATCTCCCTACCAAAATTCAGTAGTT 1552  
Db 1441 TATCCTGTGGACAATCTCCCTGCAAGATTCAACCCATT 1477

RESULT 6  
US-08-724-466B-1  
; Sequence 1, Application US/08724466B  
; Patent No. 6063606  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; ZIP: M5L 1A9  
; COUNTRY: Canada  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/724,466B  
; FILING DATE: October 1, 1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00004  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 337 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-724-466B-1

Query Match 16.1%; Score 297.8; DB 3; Length 337;  
Best Local Similarity 97.0%; Pred. No. 2.6e-83;  
Matches 325; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
QY 1519 CCAGTGGACAAATCTCCCTACCAAAATTCAGTAGTTATGT-CAGAAATTAGCCTAACCGGAG 1577  
Db 3 CCAGTGGACAAATCTCCCTACCAAAATTCAGTAGTTATGTCCAGAAATTAGCCTAACCGGA 62  
QY 1578 --CTTTGTACATATGTTTTTATTTTAGATGAACCTGTGATGATATTTTGGATATTTTCTATTTT 1635  
Db 63 GCCTTTGTACATATGTTTTTATTTTAGATGAACCTGTGATGATGATTTTCTATTTT 122  
QY 1636 GTTTATATAAGCAGATGTGTATATAAGTCTATGCGAGGAAGCGAAAAACAGGGCACTAC 1695  
Db 123 GTTTATATAAGCAGATGTGTATATAAGTCTATGCGAAGAACGCGAAAAACAGGGCACTAC 182  
QY 1696 TTTCTCATGGATCACTGTAATGCTACAGAGTGTCTGTGATGTATATTATAATGTAGTTG 1755  
Db 183 TTTCTCATGGATCACTGTAATGCTACAGAGTGTCTGTGATGTATATTATAATGTAGTTG 242  
QY 1756 TGTATATAGCTTTTGTACTGTATGCAACTTATTTAACTCGCTCTTTATCTCATGGGTTT 1815  
Db 243 TGTATATAGCTTTTGTACTGTATGCAACTTATTTAACTCGCTCTTTATCTCATGGGTTT 302  
QY 1816 TATTTAATAAAACAATGTTCTTACAAAAA 1850

Db 303 TATTTAATAAAACAATGTTCTTACAAAAA 337  
RESULT 7  
US-08-882-164D-1  
; Sequence 1, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5L 1A9  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; APPLICATION NUMBER: 08/724,466  
; FILING DATE: October 1, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 337 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-882-164D-1

Query Match 16.1%; Score 297.8; DB 4; Length 337;  
Best Local Similarity 97.0%; Pred. No. 2.6e-83;  
Matches 325; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
QY 1519 CCAGTGGACAAATCTCCCTACCAAAATTCAGTAGTTATGT-CAGAAATTAGCCTAACCGGAG 1577  
Db 3 CCAGTGGACAAATCTCCCTACCAAAATTCAGTAGTTATGTCCAGAAATTAGCCTAACCGGA 62  
QY 1578 --CTTTGTACATATGTTTTTATTTTAGATGAACCTGTGATGATATTTTCTATTTT 1635  
Db 63 GCCTTTGTACATATGTTTTTATTTTAGATGAACCTGTGATGATGATTTTCTATTTT 122  
QY 1636 GTTTATATAAGCAGATGTGTATATAAGTCTATGCGAGGAAGCGAAAAACAGGGCACTAC 1695  
Db 123 GTTTATATAAGCAGATGTGTATATAAGTCTATGCGAAGAACGCGAAAAACAGGGCACTAC 182  
QY 1696 TTTCTCATGGATCACTGTAATGCTACAGAGTGTCTGTGATGTATATTATAATGTAGTTG 1755  
Db 183 TTTCTCATGGATCACTGTAATGCTACAGAGTGTCTGTGATGTATATTATAATGTAGTTG 242  
QY 1756 TGTATATAGCTTTTGTACTGTATGCAACTTATTTAACTCGCTCTTTATCTCATGGGTTT 1815  
Db 243 TGTATATAGCTTTTGTACTGTATGCAACTTATTTAACTCGCTCTTTATCTCATGGGTTT 302  
QY 1816 TATTTAATAAAACAATGTTCTTACAAAAA 1850



Db 303 TATTATAAAACATGTTCTTACAAAAA 337

RESULT 8

US-08-724-466B-11  
; Sequence 11, Application US/08724466B  
; Patent No. 6063606  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; ZIP: M5L 1A9  
; COUNTRY: Canada  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/724,466B  
; FILING DATE: October 1, 1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00004  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 351 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-724-466B-11

Query Match 9.5%; Score 175.6; DB 3; Length 351;  
Best Local Similarity 68.9%; Pred. No. 6.5e-45;  
Matches 241; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

QY 961 GAGCTTCTATTGGAGGTCAATGAACCCACCGCCAGCAGTGCACCTCACTGTGTCATGTTT 1020  
Db 1 GAACTCCTCTTTGGAGGACACGAACCCACGGCCAGTGCAGCCACATCTCTGATCACTTAC 60

QY 1021 CTGGGTCTGAACACAGAGTGGTGCAGAGAGTGCAGAGAGGTTTCAGGAGAAGTTGAA 1080  
Db 61 CTGGGCTCTACCCACATGTTCTCCAGAAAGTGCAGAAAGAGTGAAGAGTAAGGGTTTA 120

QY 1081 ATGGGCATGTATACACCTGGAAGGGCTTGAGTATGAGCTGTGGACCACTGAAGTAC 1140  
Db 121 CTTTGCAAGAGCAATCAAGACAACAAGTTGGACATGGAATTTTGGACAACCTTAATAC 180

QY 1141 ACTGGATGTGTATTAAGAGACTCTTAGAATCAACCTCCTCTGTTCCCGAGGATTGAGA 1200  
Db 181 ATCGGGTGTGTTATTAAGGAGACCTTCGACTGAATCCCCAGTTCAGGAGGGTTTCGG 240

QY 1201 GTCGCATCAAAACCTTTGAATTGAATGTTACCAATTCCTAAAGGATGGAACGTCATT 1260  
Db 241 GTTGCTCGAAGACTTTTGAATTAAATGGATACCAAGATCCCAAGGGCTGGAATGTTATC 300

QY 1261 TACAGCATCTGTGACACGCACAGATGTGGCCGACGCTTTTCCAAACAAGA 1310  
Db 301 TACAGTATCTGTGATACTCATGATGTGGCAGAGATCTTCACCAACAAGGA 350

RESULT 9

US-08-882-164D-11  
; Sequence 11, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: M5L 1A9  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; APPLICATION NUMBER: 08/724,466  
; FILING DATE: October 1, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 351 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-882-164D-11

Query Match 9.5%; Score 175.6; DB 4; Length 351;  
Best Local Similarity 68.9%; Pred. No. 6.5e-45;  
Matches 241; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

QY 961 GAGCTTCTATTGGAGGTCAATGAACCCACCGCCAGCAGTGCACCTCACTGTGTCATGTTT 1020  
Db 1 GAACTCCTCTTTGGAGGACACGAACCCACGGCCAGTGCAGCCACATCTCTGATCACTTAC 60

QY 1021 CTGGGTCTGAACACAGAGTGGTGCAGAGAGTGCAGAGAGGTTTCAGGAGAAGTTGAA 1080  
Db 61 CTGGGCTCTACCCACATGTTCTCCAGAAAGTGCAGAAAGAGTGAAGAGTAAGGGTTTA 120

QY 1081 ATGGGCATGTATACACCTGGAAGGGCTTGAGTATGAGCTGTGGACCACTGAAGTAC 1140  
Db 121 CTTTGCAAGAGCAATCAAGACAACAAGTTGGACATGGAATTTTGGACAACCTTAATAC 180

QY 1141 ACTGGATGTGTATTAAGAGACTCTTAGAATCAACCTCCTCTGTTCCCGAGGATTGAGA 1200  
Db 181 ATCGGGTGTGTTATTAAGGAGACCTTCGACTGAATCCCCAGTTCAGGAGGGTTTCGG 240

QY 1201 GTCGCATCAAAACCTTTGAATTGAATGTTACCAATTCCTAAAGGATGGAACGTCATT 1260  
Db 241 GTTGCTCGAAGACTTTTGAATTAAATGGATACCAAGATCCCAAGGGCTGGAATGTTATC 300

QY 1261 TACAGCATCTGTGACACGCACAGATGTGGCCGACGCTTTTCCAAACAAGA 1310  
Db 301 TACAGTATCTGTGATACTCATGATGTGGCAGAGATCTTCACCAACAAGGA 350



Mon May 24 14:04:27 2004

RESULT 11  
US-08-882-164D-36  
; Sequence 36, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: MSL 1A9  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; APPLICATION NUMBER: 08/724,466  
; FILING DATE: October 1, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 38:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4164 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-882-164D-36

Query Match 9.2%; Score 170; DB 4; Length 4164;  
Best Local Similarity 70.5%; Pred. No. 2.le-42;  
Matches 227; Conservative 0; Mismatches 95; Indels 0; Gaps 0;  
QY 1226 ATGGTTACCAAAATTCCTAAAGGATGGAACGTCATTACAGCATCTGTGACACGACGATG 1285  
Db 2822 AGGGATACAGATCCCAAGGGCTGGAATGTTATTACAGTATCTGTGACACCCACGATG 2881  
QY 1286 TGGCCGACGCTTTCCAAACAAAGAGGAGTTCCAGCCGAGAGATTTCATGAGCAAGGTC 1345  
Db 2882 TGGCAGATATCTTCACTAACAGAGGAGAAATTAATCCGACCGCTTTATAGTGCCATC 2941  
QY 1346 TGGAGGACGGGTCAGGTTTAACTACATCCCCTCGGAGAGGATCCAGGATGTGTGG 1405  
Db 2942 CAGAGGATGCTTCCCGGTTTCAGCTTCAATCCATTGGAGAGGCCCTTCGAGCTGTGTAG 3001  
QY 1406 GCAAGAGTTCCCAAGGTTTACTCAAGATCTTTTAGTTAGTTAAGCAGCATTTGCA 1465  
Db 3002 GCAAGAGTTTCAAAATTTCTTCTTAAGATATTACAGTGAGCTGGTAGGCACTGTG 3061  
QY 1466 ATTGATTTCTCAACCGGACCCCGCAATGAAACAGGCCGACTATTACCCAGTGG 1525  
Db 3062 ATTGAGCTTTTAAATGGACCTCTTCAATGAAGACAGCCCACTGTGTACCTGTGG 3121  
QY 1526 ACAATCTCCCTACCAATTCAC 1547  
Db 3122 ACAATCTCCCTGCAAGATTTAC 3143

RESULT 12  
US-08-882-164D-37/c  
; Sequence 37, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville  
; TITLE OF INVENTION: Retinoid Metabolizing Protein  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Blake, Cassels & Graydon  
; STREET: Box 25, Commerce Court West  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: MSL 1A9  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
; COMPUTER: COMPAQ, IBM PC compatible  
; OPERATING SYSTEM: MS-DOS 5.1  
; SOFTWARE: WORD PERFECT  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,164D  
; FILING DATE: June 25, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/667,546  
; FILING DATE: June 21, 1996  
; APPLICATION NUMBER: 08/724,466  
; FILING DATE: October 1, 1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hunt, John C.  
; REGISTRATION NUMBER: 36,424  
; REFERENCE/DOCKET NUMBER: 50767/00010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 863-4344  
; TELEFAX: (416) 863-2653  
; INFORMATION FOR SEQ ID NO: 36:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2677 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-882-164D-36

Query Match 6.7%; Score 124.4; DB 4; Length 2677;  
Best Local Similarity 67.5%; Pred. No. 3.2e-28;  
Matches 158; Conservative 10; Mismatches 66; Indels 0; Gaps 0;  
QY 269 TCCTCCAGAGAGGAAGTTCTCGCATGAACGGCAGAAATACGGTGTCATCTACAAGA 328  
Db 1041 TCCAMAGCGGARSAAARKYKMGKATGAAGCGCAGGAATACGGCTTCATCTACAAGA 1100  
QY 329 CGCACTCTTCGGGAACCGACTGTGAGGGTGATGGAGCTGATAATGTGAGGCGAGATTC 388  
Db 1101 CGCATCTGTTCGGGCGGCCACCGTACGGGTGATGGGCGCGGACATGTGCGGCGCATCT 1160  
QY 389 TGCTGGCGAACACAAAGTGGTGTCTGTTCAGTGGCCAGCATCAGTGAGAACCATCTCTGG 448  
Db 1161 TGCTGGAGAGACCGGCTGGTGTCCATGCGCCAGCGTGGTGGCCACCATCTCTGG 1220  
QY 449 GCTCTGACACCCCTCTCCAATGTCCATGGAGTTCAACACAAAACAGAAAAAGG 502  
Db 1221 GATCTGGCTGCTCTCTTAACCTGCACGACTCTCTGCACAGCGCGCAAGAGG 1274

RESULT 12  
US-08-882-164D-37/c  
; Sequence 37, Application US/08882164D  
; Patent No. 6306624  
; GENERAL INFORMATION:  
; APPLICANT: Petkovich, P. Martin, White, Jay A.,  
; APPLICANT: Beckett, Barbara R., Jones, Glenville

;; TITLE OF INVENTION: Retinoid Metabolizing Protein  
;; NUMBER OF SEQUENCES: 43  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Blake, Cassels & Graydon  
;; STREET: Box 25, Commerce Court West  
;; CITY: Toronto  
;; STATE: Ontario  
;; COUNTRY: Canada  
;; ZIP: M5L 1A9  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette, 3 1/2 inch, 1.4 Mb storage  
;; COMPUTER: COMPAQ, IBM PC compatible  
;; OPERATING SYSTEM: MS-DOS 5.1  
;; SOFTWARE: WORD PERFECT  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/882,164D  
;; FILING DATE: June 25, 1997  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/667,546  
;; FILING DATE: June 21, 1996  
;; APPLICATION NUMBER: 08/724,466  
;; FILING DATE: October 1, 1996  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Hunt, John C.  
;; REGISTRATION NUMBER: 36,424  
;; REFERENCE/DOCKET NUMBER: 50767/00010  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (416) 863-4344  
;; TELEFAX: (416) 863-2653  
;; INFORMATION FOR SEQ ID NO: 37:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 683 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-882-164D-37

Query Match 3.9%; Score 72; DB 4; Length 683;  
Best Local Similarity 63.5%; Pred. No. 3.6e-12;  
Matches 108; Conservative 1; Mismatches 61; Indels 0; Gaps 0;  
QY 1073 AGGTTGAATGGGCGATGATACACCTGGAAGGGCTTGGATGAGTGGAGCTGTGGACCGC 1132  
Db 292 AGGTTTACTTTGCAAGAGCAATCAAGACAAAGTTGACATGGAAATTTTGAACAAC 233  
QY 1133 TGAAGTACACTGGATGTGATTAAAGAGACTTTAGAAATCAACCTCTCTGTTCCCGGAG 1192  
Db 232 TTARATACATCGGGTGTGTTATTAAAGAGACCTTCGACTGAATCCCGCAGTCCAGGAG 173  
QY 1193 GATTCAGAGTCGCACCTCAAAACCTTTGAATTGAATGGTTACCAAAATTCCT 1242  
Db 172 GGTTCGGGTTGCTCTGAAGACTTTTGAATTAAATGTAAGTTAAATTCCT 123

RESULT 13  
US-09-583-447A-9  
; Sequence 9, Application US/09583447A  
; Patent No. 6645745  
; GENERAL INFORMATION:  
; APPLICANT: WOJNOWSKI, Leszek  
; APPLICANT: GELLNER, Klaus  
; APPLICANT: EISELT, Regina  
; TITLE OF INVENTION: IDENTIFICATION OF A NEW MEMBER OF THE CYTOCHROME P450 3A  
; TITLE OF INVENTION: (CYP3A) GENE FAMILY: CYP3AX  
; FILE REFERENCE: 310115.401  
; CURRENT APPLICATION NUMBER: US/09/583,447A  
; CURRENT FILING DATE: 2000-05-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 1192  
; TYPE: DNA  
; ORGANISM: Homo sapiens

;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: (1)..(378)  
US-09-583-447A-9  
Query Match 3.8%; Score 69.4; DB 4; Length 1192;  
Best Local Similarity 52.2%; Pred. No. 3.5e-11;  
Matches 154; Conservative 0; Mismatches 141; Indels 0; Gaps 0;  
QY 1124 TGGACGAGCTGAAGTACACTGGATGTGATTAAAGAGACTCTTAGAATCAACCCCTCTG 1183  
Db 729 TGGTACAGATGGAGTACCTTGACATGGTGGTGAATGAACGCTCAGATTATTTCCCAAGTTG 788  
QY 1184 TTCCCGGAGGATTGAGATCGCACTCAAAACCTTTGAATTGAATGGTTACCAAAATTCCTA 1243  
Db 789 TTAGTAGAGTTACGAGAGTCTGCAAGAAAGATATTGAAATCAATGGAGTGTTCATTTCCA 848  
QY 1244 AAGGATGGAACGTCATTACAGCATCTGTGACACGACGATGTGGCCGAGCTTTTCCAA 1303  
Db 849 AAGGTTAGCAGTGTGTTCCCAATCTATGCTCTTCCCATGACCCAAAGTACTGGACAG 908  
QY 1304 ACAAGAGAGGTTCCAGCCGAGAGATTCATGACCAAAAGGTCTGGAGACGGGTCCAGGT 1363  
Db 909 AGCCTGAGAAGTTCTGCCCTGAAAGGTTGAGTAAGAAAGAACAGGACAGCATAGATCTTT 968  
QY 1364 TTAACATACATCCCTTCCGAGGAGGATCCAGGATGTGTGTTGGGCAAAAGATTTCG 1418  
Db 969 ACAGATACATACCTTTTGGAGCTGGACCCCGAAACTGTCATTGGCATGAGGTTTC 1023

RESULT 14  
US-09-583-447A-7  
; Sequence 7, Application US/09583447A  
; Patent No. 6645745  
; GENERAL INFORMATION:  
; APPLICANT: WOJNOWSKI, Leszek  
; APPLICANT: GELLNER, Klaus  
; APPLICANT: EISELT, Regina  
; TITLE OF INVENTION: IDENTIFICATION OF A NEW MEMBER OF THE CYTOCHROME P450 3A  
; TITLE OF INVENTION: (CYP3A) GENE FAMILY: CYP3AX  
; FILE REFERENCE: 310115.401  
; CURRENT APPLICATION NUMBER: US/09/583,447A  
; CURRENT FILING DATE: 2000-05-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 1633  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(750)  
US-09-583-447A-7

Query Match 3.8%; Score 69.4; DB 4; Length 1633;  
Best Local Similarity 52.2%; Pred. No. 4.3e-11;  
Matches 154; Conservative 0; Mismatches 141; Indels 0; Gaps 0;  
QY 1124 TGGACGAGCTGAAGTACACTGGATGTGATTAAAGAGACTCTTAGAATCAACCCCTCTG 1183  
Db 1170 TGGTACAGATGGAGTACCTTGACATGGTGGTGAATGAACGCTCAGATTATTTCCCAAGTTG 1229  
QY 1184 TTCCCGGAGGATTGAGATCGCACTCAAAACCTTTGAATTGAATGGTTACCAAAATTCCTA 1243  
Db 1230 TTAGTAGAGTTACGAGAGTCTGCAAGAAAGATATTGAAATCAATGGAGTGTTCATTTCCA 1289  
QY 1244 AAGGATGGAACGTCATTACAGCATCTGTGACACGACGATGTGGCCGAGCTTTTCCAA 1303  
Db 1290 AAGGTTAGCAGTGTGTTCCCAATCTATGCTCTTCCCATGACCCAAAGTACTGGACAG 1349  
QY 1304 ACAAGAGAGGTTCCAGCCGAGAGATTCATGACCAAGGTCTGGAGGACGGGTCCAGGT 1363  
Db 1350 AGCCTGAGAAGTTCTGCCCTGAAAGGTTTCAAGAGGTTCAAGTAAGAAAGACAGCATAGATCTTT 1409



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OM nucleic - nucleic search, using sw model

Run on: May 22, 2004, 18:02:13 ; Search time 593 Seconds  
(without alignments)  
14178.324 Million cell updates/sec

Title: US-09-668-482-3  
Perfect score: 1850  
Sequence: 1 TGTCCGCTGCTGCTCGGTT.....GTTCTTACAAAAA 1850

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2953838 seqs, 2272363821 residues  
Total number of hits satisfying chosen parameters: 5907676

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA.\*  
1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq.\*  
2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq2.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	265.2	14.3	4445	16	US-10-295-027-680 Sequence 680, Appl
2	262	14.2	4660	15	US-10-182-951-21 Sequence 21, Appl
3	235.8	12.7	2065	17	US-10-181-108-46 Sequence 46, Appl
4	88.4	4.8	1615	13	US-10-424-599-132340 Sequence 132340, A
5	86.8	4.7	1920	13	US-10-424-599-97090 Sequence 97090, A
6	79.6	4.3	1458	15	US-10-142-231-81 Sequence 81, Appl
7	79.6	4.3	1458	15	US-10-356-153-81 Sequence 81, Appl
8	78.4	4.2	2019	15	US-10-274-694-33 Sequence 33, Appl
9	78.4	4.2	2498	15	US-10-274-694-21 Sequence 21, Appl
10	77.8	4.2	1118	13	US-10-424-599-50750 Sequence 50750, A
11	77.4	4.2	866	17	US-10-181-108-47 Sequence 47, Appl
12	73	3.9	1452	15	US-10-142-231-49 Sequence 49, Appl
13	73	3.9	1452	15	US-10-356-153-49 Sequence 49, Appl
14	70.6	3.8	791	13	US-10-425-114-12586 Sequence 12586, A

15	70.6	3.8	1925	16	US-10-310-154-13 Sequence 13, Appl
16	70.2	3.8	786	15	US-10-073-885-25 Sequence 25, Appl
17	69.8	3.8	406	9	US-09-864-761-21145 Sequence 21145, A
18	69.6	3.8	955	13	US-10-424-599-30872 Sequence 30872, A
19	69.4	3.8	1192	14	US-10-007-814-9 Sequence 9, Appl
20	69.4	3.8	1613	15	US-10-274-694-25 Sequence 25, Appl
21	69.4	3.8	1631	15	US-10-274-694-34 Sequence 34, Appl
22	69.4	3.8	1633	14	US-10-007-814-7 Sequence 7, Appl
23	69.4	3.8	1659	14	US-10-007-814-1 Sequence 1, Appl
24	69.4	3.8	1915	13	US-10-112-944-188 Sequence 188, App
25	69.4	3.8	1973	14	US-10-007-814-11 Sequence 11, Appl
26	69	3.7	391	15	US-10-029-386-15648 Sequence 15648, A
27	69	3.7	579	15	US-10-029-386-1948 Sequence 1948, Ap
28	68.2	3.7	1971	9	US-09-954-456-184 Sequence 184, App
29	68.2	3.7	1971	9	US-09-880-107-1589 Sequence 1589, Ap
30	68.2	3.7	1971	9	US-09-957-997-2 Sequence 2, Appli
31	68.2	3.7	1971	10	US-09-873-367C-651 Sequence 651, App
32	68.2	3.7	2011	9	US-09-880-107-1586 Sequence 1586, Ap
33	68.2	3.7	2759	15	US-10-146-575-1 Sequence 1, Appli
34	68.2	3.7	2849	9	US-09-880-107-2110 Sequence 2110, Ap
35	67.8	3.7	1419	9	US-09-938-842A-619 Sequence 619, App
36	67.8	3.7	1419	11	US-09-938-842A-619 Sequence 169, App
37	67	3.6	745	9	US-09-764-853-169 Sequence 114, App
38	67	3.6	745	10	US-09-764-872-114 Sequence 33, Appl
39	67	3.6	745	13	US-09-764-893-33 Sequence 33, Appl
40	67	3.6	745	15	US-10-073-865-33 Sequence 102, App
41	67	3.6	745	15	US-10-103-313-102 Sequence 52, Appl
42	67	3.6	745	15	US-10-073-885-52 Sequence 697, App
43	66	3.6	1374	9	US-09-938-842A-697 Sequence 697, App
44	66	3.6	1374	11	US-09-938-842A-697 Sequence 84, Appl
45	65.2	3.5	1497	15	US-10-142-231-84

ALIGNMENTS

RESULT 1  
US-10-295-027-680  
; Sequence 680, Application US/10295027  
; Publication No. US20030232350A1  
; GENERAL INFORMATION:  
; APPLICANT: Afar, Daniel  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsberg, Wendy M.  
; APPLICANT: Gish, Kurt C.  
; APPLICANT: Glynn, Richard  
; APPLICANT: Hevezi, Peter A.  
; APPLICANT: Mack, David H.  
; APPLICANT: Murray, Richard  
; APPLICANT: Watson, Susan R.  
; APPLICANT: Eos Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and  
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer  
; FILE REFERENCE: 018501-012500US  
; CURRENT APPLICATION NUMBER: US/10/295,027  
; CURRENT FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: US 09/663,733  
; PRIOR FILING DATE: 2000-09-15  
; PRIOR APPLICATION NUMBER: US 60/350,666  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 60/335,394  
; PRIOR FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: US 60/332,464  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: US 60/334,393  
; PRIOR FILING DATE: 2001-11-29  
; PRIOR APPLICATION NUMBER: US 60/340,376  
; PRIOR FILING DATE: 2001-12-14  
; PRIOR APPLICATION NUMBER: US 60/347,211  
; PRIOR FILING DATE: 2002-01-08  
; PRIOR APPLICATION NUMBER: US 60/347,349  
; PRIOR FILING DATE: 2002-01-10  
; PRIOR APPLICATION NUMBER: US 60/355,250



; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 680
; LENGTH: 4445
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-680

Query Match 14.3%; Score 265.2; DB 16; Length 4445;
Best Local Similarity 51.8%; Pred. No. 2.6e-66;
Matches 712; Conservative 0; Mismatches 638; Indels 24; Gaps 4;

QY 87 CATGGGCTGTACACCCCTTATGGTACCTTCTCTGACCACTCGTCTACCGTTTACT 146
Db 15 CTTGGATCTGTGTGCGGCTGGCCACCTCGCCGCTGCTGTGCTGACGCTGCT 74

QY 147 CTTTCTCGCGCGGTGAAGTGTGGGAGATGTTAATGATCCGACGATCGATCCGACTG 206
Db 75 GCTGGCGGTGTGCGAGCAGCTGTGGCAGCTGCGTGGCGGCTGCGGCAAGAGCTG 134

QY 207 CAGAACTCTCTACCGCCAGGTACCATGGGCTTGGCTTCAATGAGAGAGAGCTCCAGCT 266
Db 135 CAAGCTGCCATCCCAAGGATCCATGGGCTTCCGCTTCCGCTCATCGGAGAGACCGGCCACTG 194

QY 267 GATCTCCAGAGAGAAAGTTTCTGGCATGAACCGGAGAGATGATGAGAGAGAGTCAAA 326
Db 195 GCTGCTGAGGGTTCTGGCTTCCAGTCTGTCGCGGAGGAGAGATGAGAGAGTGTCAA 254

QY 327 GACGCACTCTTCGGGAACCCGACTGTGAGGCTGATGGGAGCTGATGATGAGGAGAT 386
Db 255 GACGCACTTGTGGGCGGCGGTGATACGGTGTACCGGCGGAGAGACGTCGCAAGAT 314

QY 387 TCTGCTGGCGGAACAAGCTGTGTCTGTTCAGTGGCCAGCATCAGTGAGAACCATCT 446
Db 315 CTTGATGGCGAGCACACCTCTGTGAGCACCGAGTGGCTCGCAGCACCGCATGTTGCT 374

QY 447 GGGCTCTGACACCCCTCTCCAAATGTCATGGATTCAACACAAACAAAGAAAGGCCAT 506
Db 375 GGGCCCCAACACGGTGTCCAAATTCATTTGGCAGCATCCACCGCAACAGCGGAGTCTT 434

QY 507 TATGAGGGCTTCTCTCGAGATGCTCTGAGCACTATATCCCGTGTATCCAGGAGGT 566
Db 435 CTCAAGATCTTCAGCCAGGAGGCTGAGAGTACCTGCGCAAGATCCAGTGGTGTAT 494

QY 567 GAAGAGCGCCATACAGGAATGGCTGCAAAAGACTCTGCTGCTGCTGTTATCCAGAAAT 626
Db 495 CCAGACACACTGCGCGCTGGAGCAGCACCCCGAGGCCATCAACGTGTACAGGAGGC 554

QY 627 GAAGAACTCATGTTTCGGATAGCTATGAGATCTCTGAGAAATGATCAAAACTTGTCTC 686
Db 555 GCAGAGCTGACCTTCGGCATGGCCATCCGGGTGCTGTGGCTT-----CAGCATCCC 608

QY 687 AAAGCGGACGACGAAGAACTGGTGGAGCTTTTGGAGAAATGATCAAAACTTGTCTC 746
Db 609 TGAGGAGGACCTTGGGACCTCTTTAGGTCTACAGCAGTTTGTGGACAATGTCTCTC 668

QY 747 CTTGCCAATCGACCTTCTTCTGAGTGTGTGTACAGGGTTTGGGGCAGCAATTTTAT 806
Db 669 CTTGCTGTGACCTTCGGCATGGCCATCCGGGTGCTGTGGCTT-----CAGCATCCC 728

QY 807 TCACTCCAAAATTGAGGAAACATCAGGAAGAAATCAAGATCAGCAATGAAACGA 866
Db 729 GCAGAGGGGCTGGAGAGGCGCATCCGGGAGAGAGTGC-----AGTCACACAGGG 779

QY 867 ACAGAAATACAGAGCGCCCTTCAGCTGTTGATCGAGAACAGCAAGAGATGACGAAC 926
Db 780 CAAGGACTACTTGGACGCCCTTGGACCTCTCTCATTTGAGAGCAGCAGGAGCAGGAGGA 839

QY 927 TTTAGTTTGCAGGCGGATGAAAGAGCAGCTACAGAGCTTCTATTGGAGGTGATGAAAC 986

Db 840 GATGACCATGAGGAGCTGAGGAGCGGACCTGGAGCTGATCTTTGGCGCTATGCCAC 899
QY 987 CACGCGCAGCACTGCAACCTCCTCATGTTTCTGGTCTGAACACAGAGTGTGCA 1046
Db 900 CACGCGCAGCGCCAGCACTCCTCATCATGCTGCTGAAGCACCCTACTGTGTGGA 959

QY 1047 GAAGGTGAGAGGA-----GGTTGAGGAGAGGTTGAAATGGGCTATATACACCTGG 1100
Db 960 GAAGCTGCGGATGAGCTGCGGGCTCATGGCATCTCTGCACAGTGGCGCTGCCCTGCGA 1019

QY 1101 AAAGGGCTTGAATGAGCTGTTGGACAGCTGAAGTACACTGATGTTGATTAAAGA 1160
Db 1020 GGGCACACTGCGCTGGACACGCTCAGTGGGCTACCTGGACTGCGTCTCATCAAGGA 1079

QY 1161 GACTCTTAGAATCAACCCCTCTCTTCCCGGAGGATTGAGTGGCAGCTCAAAACCTTTGA 1220
Db 1080 GGTGATGCGCTGTTTACGCGCCATTTCCGCGGCTACCGCACTGTGCTGAGACCTTGA 1139

QY 1221 ATTGAATGGTTACCAAAATTCCTAAAGGATGGAACGCTCATTTACAGCATCTGTGACACGA 1280
Db 1140 GCTTGTGTTTCCAGATCCCAAGGCTGGAGTGTGATGATAGCATCGGAGACACCA 1199

QY 1281 CGATGTCGCGGAGCTCTTTCCAAACAAAGAGGAGTTCAGCCGAGAGATTCATGAGCAA 1340
Db 1200 TGACACAGCGCCGCTGTTCAAGACGTTGAACGTTGTCGACCCCGATCGCTTCAGCCAGGC 1259

QY 1341 AGGTCTGAGGAC---GGTCCAGGTTTAACTACATCCCTTCGAGGAGGATCCAGGAT 1397
Db 1260 GCGGAGCGGAGCAAGGATGGCGCTTCCATTACCTCCGTTCCGTTGGCGTGTCCGGAC 1319

QY 1398 GTGTGTGGCAAGAGTTCGCCAAAGTGTACTCAAGATCTTTTAGTTGAGTT 1451
Db 1320 CTGCTGGCAAGCAGCTGCGCAAGCTGTTCTGAAGGTGCTGGCGTGGAGCT 1373

RESULT 2

US-10-182-951-21
; Sequence 21, Application US/10182951
; Publication No. US20030138895A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: TANG, Y. Tom
; APPLICANT: BAUGHN, Mariah R.
; APPLICANT: YAO, Monique G.
; APPLICANT: BANDMAN, Olga
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: LAL, Preeti
; APPLICANT: GANDHI, Ameena R.
; APPLICANT: RING, Huijun Z.
; APPLICANT: SHIH, Leo L.
; APPLICANT: YANG, Junming
; APPLICANT: POLICKY, Jennifer L.
; TITLE OF INVENTION: DRUG METABOLIZING ENZYMES
; FILE REFERENCE: PI-0033 PCT
; CURRENT APPLICATION NUMBER: US/10/182,951
; CURRENT FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: 60/181,856; 10/183,684; 60/185,141; 60/186,818; 60/188,34
; PRIOR FILING DATE: 2000-02-11; 2000-02-17; 2000-02-25; 2000-03-03; 2000-03-09; 2000
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PERL Program
; SEQ ID NO 21
; LENGTH: 4660
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030138895A1 1959720CB1
US-10-182-951-21

Query Match 14.2%; Score 262; DB 15; Length 4660;
Best Local Similarity 51.7%; Pred. No. 2.3e-65;
Matches 710; Conservative 0; Mismatches 640; Indels 24; Gaps 4;

QY 1161 GACTCTTAGAATCAACCCCTCTCTGTTCCCGGAGGATTTCAGAGTCGCACTCAAAACCTTTGA 1220  
Db 1160 GGTATGCGCTGTTTACGCCCATTTCCGGCGGTACCGCACTGTGTGAGACCTTCCA 1219  
QY 1221 ATTGAATGGTTACCAAAATTCCTAAAGATGGAACCTCATTTACAGCATCTGTGACACGCA 1280  
Db 1220 GCTTGATGGTTTCCAGATCCCAAGGCTGGAGTGTATAGCATCCGGGACACCCA 1279  
QY 1281 CGATGTCGCGACGTCTTTCCAAACAAAGAGGAGTTCAGCCGGAGAGATTCATGAGCAA 1340  
Db 1280 TGACACAGCGCCGCTGTTCAAAGACGTGAACGTGTTCGACCCCGATCGCTTCAGCCAGGC 1339  
QY 1341 AGTCTGAGGAC---GGTCCAGGTTTAACTACATCCCTTCGAGGAGGATCCAGGAT 1397  
Db 1340 GCGGAGGAGGACAGGATGGCGCTTCCATTACCTCCCGTTCGCTGGCGGTTCGGGAC 1399  
QY 1398 GTGTGTGGGCAAGAGTTCGCCAAAGTGTACTCAAGATCTTTTAGTTGAGTT 1451  
Db 1400 CTGCCTGGGCAAGCACCTGGCCAAGCTGTTCTCTGAAGGTCTGGCGGTGGAGCT 1453

RESULT 3  
US-10-181-108-46  
; Sequence 46, Application US/10181108  
; Publication No. US20040086854A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: YANG, Junming  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: BURFORD, Neil  
; APPLICANT: AU-YOUNG, Janice  
; APPLICANT: LU, Dyung Aina M.  
; APPLICANT: REDDY, Roopa  
; APPLICANT: RING, Huijun Z.  
; APPLICANT: HILLMAN, Jennifer L.  
; APPLICANT: YUE, Henry  
; APPLICANT: AZIMZAI, Yalda  
; APPLICANT: YAO, Monique G.  
; APPLICANT: GANDHI, Ameena R.  
; APPLICANT: NGUYEN, Dannie B.  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: LAL, Preeti  
; APPLICANT: YUE, Henry  
; APPLICANT: BANDMAN, Olga  
; TITLE OF INVENTION: DRUG METABOLIZING ENZYMES  
; FILE REFERENCE: PI-0007 PCT  
; CURRENT APPLICATION NUMBER: US/10/181,108  
; CURRENT FILING DATE: 2002-07-11  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: PERL Program  
; SEQ ID NO 46  
; LENGTH: 2065  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 3292871CB1  
US-10-181-108-46

Query Match 12.7%; Score 235.8; DB 17; Length 2065;  
Best Local Similarity 52.2%; Pred. No. 6.8e-58;  
Matches 634; Conservative 0; Mismatches 557; Indels 24; Gaps 4;

QY 246 CATTGGAGAAACGCTCCAGTCGATCCTCCAGAGAGGAAAGTTTCTGCGCATGAAACGGCA 305  
Db 155 CCTGAGAGAGACCCGGGTGTGCTCCCGCAGGGTTCTGGCTTCCAGTCTCGCGGAGGA 214  
QY 306 GAAATACGGGTGCATCTACAAGACGCACCTCTTCGGGAACCCGACTGTTCAGGGTGTGGG 365  
Db 215 GAAGTAIGCAACGTTTCAAGACGCATTGTTGGGGCGCCGCTGATACGGGTGACCGG 274  
QY 366 AGCTGATAATGTGAGCAGATTCTGCTGGCGCAACACAGAGCTGGTGTCTGTTTCAGTGGCC 425

QY 87 CATGGGGCTGTACACCCCTTATGTTGCTACCTTTCTCTGCACCATCGTGTACCCGTTTACT 146  
Db 95 CTTGGATCTGTTGTCGGCGCTGCCACCTCGCGCGTGCCTGGTGTCCGTGACGCTGCT 154  
QY 147 CTTTCTCGCGCGGTGAAGTTGTGGAGATGTTAATGATCCGACGAGTCGATCCGAACGTG 206  
Db 155 GCTGGCCGTGTGCGAGAGCTGTGGAGCTGCGGTGGCGCCCACTCGCGACAAGAGCTG 214  
QY 207 CAGAAGTCTCTACCGCCAGGTACATGGGCTTCCGCTTCAATTGGAGAACGCTCCAGCT 266  
Db 215 CAAGCTGCCATCCCAAGGATCCATGGGCTTCCGCTCATCGGAGAGACCGGCCACTG 274  
QY 267 GATCTCCAGAGAGGAAGTTTCTGCGCATGAACCGGAGAAATACGGGTGCATCTACAA 326  
Db 275 GCTGTGCAAGTTTCTGGCTTCCAGTCTGTCGCGAGGAGAGATATGGCAACGTGTTCAA 334  
QY 327 GACGCACTCTTCGGGAACCCGACTGTTCAGGGTGTATGGAGTGAATATGTGAGGAGAT 386  
Db 335 GACGCACTTGTGGGGCGCGCTGATAGCGGTACCGGTGACCGCGGAGAACTGCGCAAGAT 394  
QY 387 TCTGCTGGGCGAACACAGCTGGTGTCTGTTTCTGAGTCCGAGCATCAGTGAGAACCATCT 446  
Db 395 CTTATGGGCGAGCACCACTCTGAGACCGAGTGGCTTCGAGCACCCGCACTGTTGCT 454  
QY 447 GGGCTGTGACACCTCTCCATGTCCATGGAGTTCAACACAAACAAAGAAAGGCCAT 506  
Db 455 GGGCCCCAACACCGGTGTCCAATTCATTGGCGACATCCACCGCAACAGCAAGGTCTT 514  
QY 507 TATGAGGGCGTTCTCTCGAGATGCTCTGGAGCACTACATTCCTGCTGATCCAGCAGGAT 566  
Db 515 CTCCAAGATCTTACGCCACGAGGCCCTGGAGAGTTACTGCCCCAAGATCCAGCTGGTAT 574  
QY 567 GAAGAGCGCCATACAGGAATGGTGCAAAAGACTCTCGTGGTGTGTTTATCCAGAAAT 626  
Db 575 CCAGGACACACTCGCGCCCTGGAGCAGCCACCCGAGGCCATCAAGCTGTACAGGAGGC 634  
QY 627 GAAGAACTCATGTTTCGGATAGTATGAGAACTCTGCTGTTGTTTGAACAGAGCAAT 686  
Db 635 GCAGAGCTGACCTTCGCGATGGCATCGGCTGCTGCTGGGCTT-----CAGCATCCC 688  
QY 687 AAAGACGGACGAGCAAGAACTGGTGAAGCTTTTGAGGAATGATCAAAACCTGTTCTC 746  
Db 689 TGAGGAGGACCTTGGGCACCTCTTGGAGTCTACAGCACTTTGTGACAAATGTTCTC 748  
QY 747 CTTGCCAATCGACGTTCTTTCAGTGGTCTGTACAGGGGTTGAGGSCACGCAATTTCT 806  
Db 749 CTTGCTGTGACCTGCTTCCCTTCACTGGCTACCGCGGGGATTCAGGCTCGGAGATCCT 808  
QY 807 TCACCTCCAAATTGAGGAAACATCAGGAAGAAATTCAGATGACCAATGAAACGA 866  
Db 809 GCAGAAAGGGCTGGAGAGGCCATCCGGGAGAGCTGC-----AGTGCAACAGGG 859  
QY 867 ACAGAAATACAAAGACGCCCTTCAGTGTGATCGAGAACAGCAGAGAAAGTACGAAC 926  
Db 860 CAAGGACTACTTGGACGCTCTGGACCTCTTCAATTGAGAGCAGCAAGGACACGGGAAG 919  
QY 927 TTTTAGTTTGCAGGCGATGAAAGAGCAGCTACAGAGCTTCTATTGGAGGTATGAAAC 986  
Db 920 GATGACCATGACGAGCTGAAGGACGGGACCCCTGGAGCTGATCTTTGGGCTATGCCAC 979  
QY 987 CACCGCCAGCACTGCAACCTCACTTGTCTGTTCTGTTCTGAGTGAACACAGAGTGTGCA 1046  
Db 980 CACGGCCAGCGCAGCACCTCACTCATGTCAGTGTGCTGAAGCACCCCACTGTGCTGGA 1039  
QY 1047 GAAGTCAAGAGGA-----GGTTCAGGAGAGGTTGAAATGGGCATGTATACACTGG 1100  
Db 1040 GAAGTCTCGGATGAGCTCGGGCTCATGGCATCTCTGCACAGTGGCGGCTGCCCTCGCA 1099  
QY 1101 AAAGGGCTGAGATGGAGCTGTGACCCAGCTGAAGTACATCGGATGTGTGATTAAAGA 1160  
Db 1100 GGGCACACTGCGCCTGGACACGCTCAGTGGGCTGCGTACTGCACTGCTGATCAAGGA 1159

Db 275 CGGGAGAAAGTGGCAAGATCCTCATGGCGAGACACACCTCGTGAGCACCGAGTGCC 334  
QY 426 AGCATAGTGAGAACCATCTGGGCTCTGACACCCCTCTCCAAATGTCCATGTCCATGAGTTCAACA 485  
Db 335 TCGAGCACCCGCATGTTGCTGGGCCCCAACACGGTGTCCAATTCATTCGCGACATCCA 394  
QY 486 CAAAAACAAGAAAAGGCCATATAGGGCGTCTCTCGAGATGCTCTGGAGCACTACAT 545  
Db 395 CCGCAACAAGCGCAAGGTCTTCTCCAAGATCTTCAGCCAGGAGCCCTGGAGAGTTACT 454  
QY 546 TCCCGTGATCCAGCAGGAGGTGAAGCGGCATACAGGAATGGCTGCAAAAAGACTCCTG 605  
Db 455 GCCCAAGATCCAGCTGGTGATCCAGGACACACTGGCGCCTGGAGAGCCACCCCGAGGC 514  
QY 606 CGTGCTGTTTATCCAGAAATGAAGAACTCATGTTTCGGATAGCTATGAGATCCTGCT 665  
Db 515 CATCAACGTGTACCAGAGGCGCAGAAAGTACCTTCCGCATGGCCATCCGGTGCTGCT 574  
QY 666 TGGTTTGAACACAGAGCAAAATAAAGACGGAGCAAGAACTGGTGAAGCTTTTGAGGA 725  
Db 575 GGCCTT-----CAGCATCCCTGAGGAGGACCTTGGGCACCTCTTTGAGGTCTACAGCA 628  
QY 726 AATGATCAAAAACCTTCTCTCCCTGCCAATCGACGTTCTCTTTCAGTGGTCTGTACAGGG 785  
Db 629 GTTGTGGACAATGTCTCTCCCTGCTGTCGACCTGCCCTTCAGTGGCTACCGCGGGG 688  
QY 786 TTTGAGGGCAGCAATTTTCACTTCACTCCAAATTTAGGAAACATCAGGAAGAAATTC 845  
Db 689 CATTCAGGCTCGGCAGATCTCTGCAGAGGGGCTGGAGAGGCCATCCGGGAGAACTGCA 748  
QY 846 AGATGACGACAAATGAAGAAACGAAACAGAAATACAAAGACGCCCTTCAGCTGTTGATCGAA 905  
Db 749 GTGCA-----CACAGGCAAGGACTACTTTGGAGCGCCCTGGACCTCCTCAITGAGAG 799  
QY 906 CAGCAGAAAGATGACGAACTTTTGTAGTTTGGAGCGATGAAGAAAGCAGCTACAGAGCT 965  
Db 800 CAGCAAGGAGCAGCGGAAGAGATGACCATGACAGAGCTGAAGGACCGGACCTTGAGCT 859  
QY 966 TCTATTGGAGGTGATGAACACCGCCAGCAGCTGCAACCTCACTTGTCTGATGTTCTGGG 1025  
Db 860 GATCTTTGGCGCTATGCCACCGCCAGCGGCGGAGTGGGATGAGCTGGGCTCATGGCATCTGCA 979  
QY 1026 TCTGAACACAGAAAGTGGTGAGAAAGGTTCAGAGAGGA-----GGTTTCAGGAGAAAGTTGA 1079  
Db 920 GAAGCACCCCACTGTGCTGGAGAGCTGGGATGAGCTGGGCTCATGGCATCTGCA 979  
QY 1080 AATGGCATGTATACACCTGGAAAGGGCTTGATGAGAGCTGTTGGACCAAGCTGAAGTA 1139  
Db 980 CAGTGGGGCTGCCCTGCGAGGGCACACTGCGCTGGACACGCTCAGTGGGCTGGGCTA 1039  
QY 1140 CACTGGATGTGATTAAGAGACTCTTAGAATCAACCTCTCTGTTCCCGAGGATTCAG 1199  
Db 1040 CCTGGACTGCTCATCAAGAGGTGATGCGCTGTTACGCCCATTTCCGGCGGCTACCG 1099  
QY 1200 AGTCGCACTCAAAACCTTTGAATGAATGGTTACCAATTCCTAAAGGATGAACGTCAT 1259  
Db 1100 CACTGTGTGCAGACCTTCGAGCTTGATGGTTTCCAGATCCCAAGGCTGGAGTGTCTAT 1159  
QY 1260 TTACAGCATCTGTGACACGCCATGTGGCGACGCTCTTCCAAACAAGAGGAGTTCCA 1319  
Db 1160 GTATAGCATCCGGGACACCCATGACACAGCGCCCGTGTTCAAAGAGGTGAACGTGTTCCA 1219  
QY 1320 GCGGAGAGATTCATGACGAAAGGTCCTGGAGAC---GGGTCCAGGTTTAACTACATCCC 1376  
Db 1220 CCCCAGTCGTTTCAGCCAGGGCGGAGGAGCAGAGATGGCGGCTTCCATTACCTCCC 1279  
QY 1377 CTTGGAGGAGGATCCAGGATGTGTGGGCAAGAGTTTCGCAAAAGTGTACTCAAGAT 1436  
Db 1280 GTTCGGTGGCGGTGTCGGACCTGCTGGGCAAGCACCTTGCCCAAGCTGTTCCCTGAAGGT 1339  
QY 1437 CTTTATTGAGTT 1451

Db 1340 GCTGGCGGTGGAGCT 1354  
RESULT 4  
US-10-424-599-132340  
; Sequence 132340, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 132340  
; LENGTH: 1615  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_9050C.1  
US-10-424-599-132340  
Query Match 4.8%; Score 88.4; DB 13; Length 1615;  
Best Local Similarity 44.5%; Pred. No. 1.5e-14;  
Matches 497; Conservative 0; Mismatches 601; Indels 18; Gaps 3;  
QY 305 AGAATACGGGTGCATCTACAAGACGCGACCTCTTCGGGAACCCGACTGTCAGGGTATGG 364  
Db 211 ACAAGTATGTTCCCATTTCAAAGCTAAGCCTCTTTGGGAACCAACAGTTTAATCCATG 270  
QY 365 GAGCTGATAATGTAGGCGAGATTCTGCTGGGCGAACACAAAGCTGGTGTCTGTTTCACTGGC 424  
Db 271 GACAGCTGCAAAATAGTTTATATTCTCCGGTGGCGGTAAACGGGATGCTGAACCAAGCAAA 330  
QY 425 CAGCATCAGTGAAACCATCTCTGGGCTGTGACACCTCTCCATGTCCATGTCCATGGAGTTCAAC 484  
Db 331 CACAGTCCATCAAAATGATCTAGGTGACCGGAACTTGTGGAATTTGACTGGTGAAGATC 390  
QY 485 ACAAACAAGAAAAAGGCCATTATGAGGCGTTCTCTCGAGATGCTCTGAGAGCACTACA 544  
Db 391 ACAGCGGAGTCAGAGGTGCACTGTGCCATTTCTGAAGCCAGAAATCCTTGAGAGATATG 450  
QY 545 TTCCCGTGATCCAGCAGGAGTGAAGAGCGCCATACAGGAATGGCTGCAAAAAGACTCCT 604  
Db 451 TGGGAAAAATGGATGAAGAAAGTAGGAAGCACTTGAGATGCTGGCAGGGGAAACAGC 510  
QY 605 GCGTGTGTTTATCCAGAAATGAAGAAACTCATGTTTCGGATAGCTATGAGAACTCCTGC 664  
Db 511 AGATCAAGTATTTGCCCTGATGAAGACTCTCACATTCACAAATATTTGCTCTCTCTGT 570  
QY 665 TTGGTTTTGAACCCAGAGCAATTAAGAGCGGACGAGCAAGAACTGGTGGAGCTTTTGGG 724  
Db 571 TTGGTGTGAGCGTG-----GAAAGCAAGAGAGATCAATTCCTGGATTCTCTTCCAAG 621  
QY 725 AATGATCAAAAACCTTGTCTCTCTGCAATCGACGTTCTCTTTCAGTGGTCTGTACAGGG 784  
Db 622 AGATGATCAAGGAATGTGGTGTGATACCAATTAACGTGCCCTTTCACCGCTACAAACCGCA 681  
QY 785 GTTTGAGGCGCAGCAATTTCACTTCACTCCAAAATTTAGGAAACATCAGGAAGAAATTC 844  
Db 682 GCCTTAGCAAGTGCAAGAAATCCAGAACTTTTGAAGAGATTGTCGCAAGAGAGAGA 741  
QY 845 AAGATGACGCAATGAAGAAACGACAGAAATCAAGAGCGCCCTTTCAGCTGTTGATCGAGA 904  
Db 742 TTGAAGTCAAGCAAAATGCGGATCTGACGCGCAAGACTTGATCAGTTTCTTTGTTAGGCA 801  
QY 905 ACAGCAGAAAGATGACGAACCTTTTAGTTTTCAGGCGGATGAAGAGCAGCTACAGAGC 964  
Db 802 TGGTTGATGAAGATGGCAAAACAGTTATGAGCGAGAAAGAAATCTTTCAACATTAAGC 861







402 CAAGCTGGTGTCTGTTTCAGTGGCCAGCATCAGTGAAGAACCATCTCGGGCTCTGACACCCCT 461  
Db |||||  
312 CAAGCTGGTGCAGATCTCATGGCCGAGCTCCATGATGAAGAACTCATCGCGGAGATGTCT 371  
QY |||||  
Db |||||  
462 CTCGAATGTCATGGAGTTCAACACAAACAAAGAAAGGCCATTATGAGGGCGTTCTC 521  
Db |||||  
372 CGCGGCAAAACGGGAGAGCAGCATCGGATCTCTACGGCTGCCTAACTCGGTTTGGG 431  
QY |||||  
Db |||||  
522 TCGAGATGCTCTGGAGCACTACATTCCTCGTGTATCCAGCAGGAGGTGAAGAGCGGCATACA 581  
Db |||||  
432 TCCTCAAGCATTCAGATCATTTTCGCTAAATGAGCTCGGAATCCACGCCACATCAA 491  
QY |||||  
Db |||||  
582 GGAATGGCTGCAAAAAGACTCCTCGTGTCTGTTTATCCAGAAATGATGAAGAAATCATGTT 641  
Db |||||  
492 TGAATAATGGAAGGAAGGATGAGCCACTGTACTTCTTGGTAAAGACCTCGTCTT 551  
QY |||||  
Db |||||  
642 TCGGATAGCTATGAGAACTCTGTCTTGGTTTGAACAGAGCAATATGAAGACGGACGACA 701  
Db |||||  
552 CTCGGTCGCAAGCCGCTTGTGTTTGGTATAACTGAGGAGCACCTGCAGGAGCACTTCA 611  
QY |||||  
Db |||||  
702 AGAATGGTGGTGAAGCTTTTCAGGAAATGATCAAAAACCTTGTCTCTCTCCCAATCGACGT 761  
Db |||||  
612 TAACCTGTTGGAAGTT-----ATTCTTGTGGGATCTTTTCTGTTCCACTCAACAT 662  
QY |||||  
Db |||||  
762 TCCCTTCAGTGTCTGTACAGGGGTTTGAAGGCGACGCAATTCATTCATCTCCCAATCGAC 821  
Db |||||  
663 TCCCGGATTCAGTTACCATTAAGCGAATTCAGGCAAGGGCCACCTCGTGCATCATGAC 722  
QY |||||  
Db |||||  
822 GGAACATCAGGAAGAAATTCAGATGACGACATGAAAGCAATGAAAGCAAGAAATACAAGA 881  
Db |||||  
723 CCATTTGATAGAAAGAGGAGAAATGAGCTCGGTGCGTGCAGGCACTGCATCTGAGAATCA 782  
QY |||||  
Db |||||  
882 CGCCCTTCAGCTGTGATCGAGAACAGCAGAAAGATGACGAACCTTTTGTGTTGAGGC 941  
Db |||||  
783 TTTGCTCTCTGTTTGTCTACCTTCACTGACGAAAGGGGAAATTCATCTGGGACAAAGGA 842  
QY |||||  
Db |||||  
942 GATGAAGAGCAGCTACAGAGCTTCTATTGAGGTGATGAACCAACCGCCAGCAGTGC 1001  
Db |||||  
843 GATCCTCGACAACTTTCTATGTTACTTTCATGATCATATGACTCCACCAATTCCTCCACT 902  
QY |||||  
Db |||||  
1002 AACCTCACTGTGTCTGTTCTGGTCTGAACACAGAACTGGTGCAGAAAGTTCAGAGAGGA 1061  
Db |||||  
903 TACCATGTTGATTAAGTCTTGGCTCCCATCCAGAAAGCTATGAAAAGTGGTCAAGA 962  
QY |||||  
Db |||||  
1062 GGTTCAGGAGAGGTTGAAATGGGATGTATACACCTGGAAGGGCTTGAGTATGAGCT 1121  
Db |||||  
963 GCAATTTGGAATACTCTCCACCAAAATGGAGGAGAAATGCTTGA-----AAGA 1016  
QY |||||  
Db |||||  
1122 GTTGGACAGCTGAAGTACACTGGATGTGTATTAAGAGACTCTTGAATCAACCTCTC 1181  
Db |||||  
1017 CCTGAAGGAGATGAATATTCATGGCAAGTTGTTCAAGGAACATTTGCCATGTATCTCTC 1076  
QY |||||  
Db |||||  
1182 TGTTCGGGAGGATTCAGAGTCCGACTCAAAACCTTTGAATGATGTTACCAATTC 1241  
Db |||||  
1077 CATTTTGGAACTTTTCGCAAGCCATCACTGACATTCATTACAATGTTATACAATTC 1136  
QY |||||  
Db |||||  
1242 TAAAGATGGAAGCTCATTTACAGCATCTGTGACAGCAGCATGTGCGGACGTTCTTTC 1301  
Db |||||  
1137 AAAAGATGGAACCTTTTATGGACAACTTACAGTACTCAACCAAGGAAGAGTATTTCAA 1196  
QY |||||  
Db |||||  
1302 AAACAAAGAGGATTCAGCCGGAGAGATTCATGAGCAAGGTTCTGGAGACGGGTCCAG 1361  
Db |||||  
1197 GGACGCCATCAATCAAGCCATCAAGATTTGAGGAGGAAGG---GAAGCATGTAACCCC 1253  
QY |||||  
Db |||||  
1362 GTTTAACTACATCCCTTCGAGGAGGATCCAGGATGTGTGCGGCAAGAGTTGCGCAA 1421  
Db |||||  
1254 TTACACATACCTTACCTTTTCGAGGAGGATGCGTGTGTTTCCAGGGTGGGAATTCGCCAA 1313  
QY |||||  
Db |||||  
1422 AGTG 1425  
1314 GATG 1317

RESULT 7  
US-10-356-153-81  
; Sequence 81, Application US/10356153  
; Publication No. US20030166176A1  
; GENERAL INFORMATION:  
; APPLICANT: Croteau, Rodney et al.  
; TITLE OF INVENTION: CYTOCHROME P450 OXYGENASES AND THEIR USES  
; FILE REFERENCE: 62773  
; CURRENT APPLICATION NUMBER: US/10/356,153  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: US/10/142,231  
; PRIOR FILING DATE: 2002-05-08  
; PRIOR APPLICATION NUMBER: 60/165,250  
; PRIOR FILING DATE: 1999-11-12  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 81  
; LENGTH: 1458  
; TYPE: DNA  
; ORGANISM: Taxus cuspidata  
US-10-356-153-81  
  
Query Match 4.3%; Score 79.6; DB 15; Length 1458;  
Best Local Similarity 43.9%; Pred. No. 5.6e-12;  
Matches 502; Conservative 0; Mismatches 624; Indels 18; Gaps 3;  
  
QY 282 GAAGTTTCTGCGCATGAACCGCAGAAATACGGGTGCATCTACAGACGCACCTCTTCGG 341  
Db |||||  
192 GCAGTTTATTGAAGAGAGAAATGAGCAAAATTTGGGATGTGTTCAAGACTTCCATAATCGG 251  
QY |||||  
Db |||||  
342 GAACCCGACTGTGAGGGTGTGAGGAGCTGATAATGTGAGGCGAGATTCTGCTGGGCGAACA 401  
Db |||||  
252 GCATCCCAAGTAGTGTGTGAGACCTGCGGAAACCGGTTGGTCTGTGCGAACGAGAA 311  
QY |||||  
Db |||||  
402 CAAGCTGGTGTCTGTTTCAGTGGCCAGCATCAGTGAAGAACCATCTCGGGCTCTGACACCCCT 461  
Db |||||  
312 CAAGCTGGTGCAGATCTCATGGCCGAGCTCCATGATGAAGAACTCATCGGCGAAGATTGTCT 371  
QY |||||  
Db |||||  
462 CTCCAATGTCATGGAGTTCAACACAAACAAAGAAAGGCCATTATGAGGGCGTTCTC 521  
Db |||||  
372 CGCGGCAAAACGGGAGAGCAGCATCGGATCTGACGCGCTGCATTAACCTCGGTTTGGG 431  
QY |||||  
Db |||||  
522 TCGAGATGCTCTGGAGCACTACATTCCTCGTGTATCCAGCAGGAGGTGAAGAGCGGCATACA 581  
Db |||||  
432 TCCTCAAGCATTCAGATCATTTTCGCTAAATGAGCTCGGAATCCACGCCACATCAA 491  
QY |||||  
Db |||||  
582 GGAATGGCTGCAAAAAGACTCCTCGTGTCTGTTTATCCAGAAATGAGAAATCATGTT 641  
Db |||||  
492 TGAATAATGGAAGGAAGGATGAGCTCGGTGCGTGCAGGCACTGCATCTGAGAATCAAGA 701  
QY |||||  
Db |||||  
642 TCGGATAGCTATGAGAACTCTGTGTTGTTTGAACAGAGCAATTAAGACGGACGAGCA 701  
Db |||||  
552 CTCGGTCGCAAGCCGCTTGTGTTTGGTATAACTGAGGAGCACCTGCAGGAGCACTTCA 611  
QY |||||  
Db |||||  
702 AGAATGGTGGAGAGCTTTTCAGGAAATGATCAAAAACCTTGTCTCTCTTGCATTCGAGCT 761  
Db |||||  
612 TAACCTGTTGGAAGTT-----ATTCTTGTGGGATCTTTTCTGTTCCACTCAACAT 662  
QY |||||  
Db |||||  
762 TCCCTTCAGTGTCTGTACAGGGGTTTGAAGGCGACGCAATTCATTCATCTCCAAATTGA 821  
Db |||||  
663 TCCCGGATTCAGTTACCATTAAGCGAATTCAGGCAAGGGGAAATTCATCTGGGCAAGGA 722  
QY |||||  
Db |||||  
822 GGAACATCAGGAAGAAATTCAGATGACGACATGAAAGCAATGAAAGCAAGAAATACAAGA 881  
Db |||||  
723 CCATTTGATAGAAAGAGGAGAAATGAGCTCGGTGCGTGCAGGCACTGCATCTGAGAATCA 782  
QY |||||  
Db |||||  
882 CGCCCTTCAGCTGTGATCGAGAACAGCAGAAAGATGACGAACCTTTTGTGTTGAGGC 941  
Db |||||  
783 TTTGCTCTCTGTTTGTCTACCTTCACTGACGAAAGGGGAAATTCATCTGGGACAAAGGA 842  
QY |||||  
Db |||||  
942 GATGAAGAGCAGCTACAGAGCTTCTATTGAGGTGATGAACCAACCGCCAGCAGTGC 1001  
Db |||||  
843 GATCCTCGACAACTTTCTATGTTACTTTCATGATCATATGACTCCACCAATTCCTCCACT 902  
QY |||||  
Db |||||  
1002 AACCTCACTGTGTCTGTTCTGGTCTGAACACAGAACTGGTGCAGAAAGTTCAGAGAGGA 1061  
Db |||||  
903 TACCATGTTGATTAAGTCTTGGCTCCCATCCAGAAAGCTATGAAAAGTGGTCAAGA 962  
QY |||||  
Db |||||  
1062 GGTTCAGGAGAGGTTGAAATGGGATGTATACACCTGGAAGGGCTTGAGTATGAGCT 1121  
Db |||||  
963 GCAATTTGGAATACTCTCCACCAAAATGGAGGAGAAATGCTTGA-----AAGA 1016  
QY |||||  
Db |||||  
1122 GTTGGACAGCTGAAGTACACTGGATGTGTATTAAGAGACTCTTGAATCAACCTCTC 1181  
Db |||||  
1017 CCTGAAGGAGATGAATATTCATGGCAAGTTGTTCAAGGAACATTTGCCATGTATCTCTC 1076  
QY |||||  
Db |||||  
1182 TGTTCGGGAGGATTCAGAGTCCGACTCAAAACCTTTGAATGATGTTACCAATTC 1241  
Db |||||  
1077 CATTTTGGAACTTTTCGCAAGCCATCACTGACATTCATTACAATGTTATACAATTC 1136  
QY |||||  
Db |||||  
1242 TAAAGATGGAAGCTCATTTACAGCATCTGTGACAGCAGCATGTGCGGACGTTCTTTC 1301  
Db |||||  
1137 AAAAGATGGAACCTTTTATGGACAACTTACAGTACTCAACCAAGGAAGAGTATTTCAA 1196  
QY |||||  
Db |||||  
1302 AAACAAAGAGGATTCAGCCGGAGAGATTCATGAGCAAGGTTCTGGAGACGGGTCCAG 1361  
Db |||||  
1197 GGACGCCATCAATCAAGCCATCAAGATTTGAGGAGGAAGG---GAAGCATGTAACCCC 1253  
QY |||||  
Db |||||  
1362 GTTTAACTACATCCCTTCGAGGAGGATCCAGGATGTGTGCGGCAAGAGTTGCGCAA 1421  
Db |||||  
1254 TTACACATACCTTACCTTTTCGAGGAGGATGCGTGTGTTTCCAGGGTGGGAATTCGCCAA 1313  
QY |||||  
Db |||||  
1422 AGTG 1425  
1314 GATG 1317

QY	1002	AACCTCACTTGTCTATGTTTCTGGTCTGAAACACAGAAAGTGGTGAGAAAGTTCAGAGAGGA	1061
Db	903	TACCATGTTGATTAAGTCTTGGCTCCCATCCAGAAAGCTATGAAAAAGTGGCTCAAGA	962
QY	1062	GGTTCAGGAGAAGGTTGAATGGGCACTGATACACCTGGAAGGGCTTCAGTATGGAGCT	1121
Db	963	GCAATTGGAACTCTCCACCAAAATGGAGGGAGAAGAAATGCTTGG-----AAGA	1016
QY	1122	GTTGGACCAGCTGAAGTACACTGGATGTTGATTAAAGAGACTCTTAGAATCAACCCCTCC	1181
Db	1017	CCTGAAGGAGATGAAATATTTCATGGCAAGTTGTTTCAGGAACACTTGGCGATGTATCCTCC	1076
QY	1182	TGTTCCGGGAGGATTCAGAGTCGCACTCAAAACCTTTGAAATTGAATGGTTACCAAAATTC	1241
Db	1077	CATTTTGGAAACATTCGCAAGCCATCACTGACATTCATTACAATGGTTATACAAATTC	1136
QY	1242	TAAAGGATGGAACGTCAATTTACAGCATCTGTGACACGCACGATGTGGCCGACGTCTTCC	1301
Db	1137	AAAAGGATGGAACCTTTTATGGACAACCTTACAGTACTCAAAACCAAGGAAGATTTTCAA	1196
QY	1302	AAACAAAGAGGAGTTCAGCCGGAGAGATTTCATGAGCAAAAGGCTCTGGAGGACGGTCCAG	1361
Db	1197	GGACGCCGATCAATTCAAGCCATCAAGATTTGAGGAGGAAGG---GAAGCATCTAACCC	1253
QY	1362	GTTTAACTACATCCCCTTCGGAGGAGGATCCAGGATGTGTGTGGGCAAGAGTTCGCCAA	1421
Db	1254	TTACACATACTTACCTTTCGGAGGAGGCATCGGTGTTTGTCCAGGTGGGAATTCGCCAA	1313
QY	1422	AGTG	1425
Db	1314	GATG	1317

QY	1242	TAAAGGATGGAACGTCATTTACAGCATCTGTGACACGCCAGATGTGGCCGACGTCTTTCC	1301
Db	1137	AAAGGATGGAACACTTTATGGACAACCTTACAGTACTCAAAACCAAGGAAGATATTTCAA	1196
QY	1302	AAACAAAGAGGAGTTCCAGCCGGAGAGATTTCATGAGCAAAAGGTCCTGGAGGACGGGTCCAG	1361
Db	1197	GGACGCCGATCAATTCAAGCCATCAAGATTTGAGGAGGAAGG---GAAGCATGTAACCCC	1253
QY	1362	GTTTAACTACATCCCCTTCGGAGGAGGATCCAGGATGTGTGTGGGCAAAAGAGTTCGCCAA	1421
Db	1254	TTACACATACTTACCTTCGGAGGAGGCATCGGTGTTTGTCCAGGTGGGAATTCGCCAA	1313
QY	1422	AGTG 1425	
Db	1314	GATG 1317	

RESULT 8

US-10-274-694-33

; Sequence 33, Application US/10274694

; Publication NO. US20030143589A1

; GENERAL INFORMATION:

; APPLICANT: BAUGHN, Mariah R.

; APPLICANT: BRUNS, Christopher M.

; APPLICANT: DAS, Debopriya

; APPLICANT: DING, Li

; APPLICANT: ELLIOTT, Vicki S.

; APPLICANT: GANDHI, Ameena R.

; APPLICANT: HAFALIA, April J.A.

; APPLICANT: KEARNEY, Liam

; APPLICANT: KHAN, Farrah A.

; APPLICANT: LAL, Preeti G.

; APPLICANT: LEE, Ernestine A.

; APPLICANT: LU, Dyung Aina M.

; APPLICANT: LU, Yan

; APPLICANT: NGUYEN, Danniel B.

; APPLICANT: PATTERSON, Chandra S.

; APPLICANT: RAMKUNAR, Jayalaxmi

; APPLICANT: RING, Huijun Z.

```

, APPLICANT: THANGAVELU, Kavitha
, APPLICANT: THORNTON, Michael B.
, APPLICANT: TRIBOULEY, Catherine M.
, APPLICANT: WALIA, Narinder K.
, APPLICANT: XU, Yuming
, APPLICANT: YANG, Junming
, APPLICANT: YAO, Monique G.
, APPLICANT: YUE, Henry
, TITLE OF INVENTION: DRUG METABOLIZING ENZYMES
, FILE REFERENCE: PI-0151 USA
, CURRENT APPLICATION NUMBER: US/10/274,694
, CURRENT FILING DATE: 2002-10-18
, PRIOR APPLICATION NUMBER: 60/221,837
, PRIOR FILING DATE: 2000-07-28
, PRIOR APPLICATION NUMBER: 60/220,037

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APPLICANT: LAL, Preeti G.  
APPLICANT: LEE, Ernestine A.  
APPLICANT: LU, Dyung Aina M.  
APPLICANT: LU, Yan  
APPLICANT: NGUYEN, Dannie B.  
APPLICANT: PATTERSON, Chandra S.  
APPLICANT: RAMKUMAR, Jayalaxmi  
APPLICANT: RING, Huijun Z.  
APPLICANT: SANJANWALA, Madhusudan M.  
APPLICANT: TANG, Y. Tom  
APPLICANT: THANGAVELU, Kavitha  
APPLICANT: THORNTON, Michael B.  
APPLICANT: TRIBOULEY, Catherine M.  
APPLICANT: WALIA, Narinder K.  
APPLICANT: XU, Yuming  
APPLICANT: YANG, Junming  
APPLICANT: YAO, Monique G.  
APPLICANT: YUE, Henry  
TITLE OF INVENTION: DRUG METABOLIZING ENZYMES  
FILE REFERENCE: PI-0151 USA  
CURRENT APPLICATION NUMBER: US/10/274,694  
CURRENT FILING DATE: 2002-10-18  
PRIOR APPLICATION NUMBER: 60/221,837  
PRIOR FILING DATE: 2000-07-28  
PRIOR APPLICATION NUMBER: 60/220,037  
PRIOR FILING DATE: 2000-07-21  
PRIOR APPLICATION NUMBER: 60/218,948  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US01/21324  
PRIOR FILING DATE: 2001-07-05  
PRIOR APPLICATION NUMBER: 60/216,804  
PRIOR FILING DATE: 2000-07-07  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: PERL Program  
SEQ ID NO 21  
LENGTH: 2498  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20030143589A1 8097779CB1  
US-10-274-694-21

Query Match 4.2%; Score 78.4; DB 15; Length 2498;  
Best Local Similarity 48.8%; Pred. No. 1.9e-11;  
Matches 251; Conservative 0; Mismatches 251; Indels 12; Gaps 1;  
QY 929 TTAGTTTGCAGCGATGAAGAAGAGCTACAGAGCTTCTATTGAGGTCATGAAACCA 988  
Db 1441 TAAGTCATGAAGATATTCGAGAAGAGTTGACACCTTCTATGTTGAGGGGCACGATACAA 1500  
QY 989 CCGCAGACTGCAACCTCACTTGTCTGTTCTGAGTGAACACAGAGTGTGTCAGA 1048  
Db 1501 CTGAGCTGCAATAAACCTGGTCCTTATACCTGTGTTCTTAACCCAGAGTCCAGAAA 1560  
QY 1049 AGGTGAGAGAGGAGGTTTCCAGGAGAGGTTGAATGGGCATGTATACACCTGGAAGGGCT 1108  
Db 1561 AAGTGGATCATGAATTGGATGACGTGTTGGAG-----TGTACCCGTCGCG 1608  
QY 1109 TGAGTATGGAGCTGTTGGACAGAGTGAAGTACACTGATGTGTGATTAAAGAGACTTTA 1168  
Db 1609 CTACAGTAGAAGACCTGAAGAACTTCGGTATCTGGAATGTGTTATTAGGAGACCTTC 1668  
QY 1169 GAATCAACCTCTGTTCCCGAGGATTTCAGAGTCGCACTCAAAACCTTGAATTGAATG 1228  
Db 1669 GCCTTTTCT 1728  
QY 1229 GTTACCAATTCCTAAAGGATGAAGAGTCAATTACAGCATCTGACACGCGACGATGTGG 1288  
Db 1729 GTTACAGAGTTCTAAAGGCACTGAAGCCCTCATCTCCCTATGATTCGACAGAGATC 1788  
QY 1289 CCGACGCTTTCCAACAAAGAGGAGTTCAGCCGAGAGATTCATGAGCAAGGTTCTGG 1348

Db 1789 CGAGATACCTCCCAACCCCGAGAGTTCAGGCCTGAGCGTTCTTCCCGAGAAATGCAC 1848  
QY 1349 AGGACGGTCCAGGTTTAACTACATCCCTTCGGAGGAGGATCCAGGATGTGTGGGCA 1408  
Db 1849 AAGGGCGCATCCATATGCCTACGTGCCCCCTTCTCTGCTGCCCCAGGAACGTGTATAGGTC 1908  
QY 1409 AAGAGTTCGCCAAAGTGTACTCAAGATCTTTT 1442  
Db 1909 AAAAGTTTGTGTGATGGAAGAAAAGACCATTTCT 1942  
RESULT 10  
US-10-424-599-50750  
; Sequence 50750, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 50750  
; LENGTH: 1118  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(1118)  
; OTHER INFORMATION: unsure at all n locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_16838C.1  
US-10-424-599-50750

Query Match 4.2%; Score 77.8; DB 13; Length 1118;  
Best Local Similarity 50.3%; Pred. No. 1.6e-11;  
Matches 255; Conservative 0; Mismatches 237; Indels 15; Gaps 2;  
QY 964 CTTCTATTTGGAGGTCATGAACACCCCGCAGCAGCTGCAACCTCACTTGTCTCATGTTTCTG 1023  
Db 334 CTTTGTATTGGAGGCCATGACACTGCTAGTGTGCAATCATCTTTCATTTGTCAAAATATCTT 393  
QY 1024 GGTCTGAACACAGAAAGTGGTGCAGAGAGGTTGAGAGGAGGTTGAGAGAGGTTGAAATG 1083  
Db 394 GCTGAATCTCCCTCACATTTATGATAGAGTCTATCAAGAGCAATGGAATGCAAAA--- 450  
QY 1084 GGCATGTATACACCTGGAAAGGGCTTGAATGAGTATGAGAGCTGTTGGACGAGTGAAGTACACT 1143  
Db 451 ---CTGAAATCGCCAGGAGAGTTATTGAATGGGATGATGTCACAGGATGCAGTATCT 507  
QY 1144 GGATGTGTATTAAGAGACTCTTAGAATCAACCTCTCTGTTCCCGGAGGATTCAGAGTC 1203  
Db 508 TGGATGTAGCTTGTGAAGTAATGAGAAATCGCTCTCCACTTCAAGGAGGTTTAGGGA 567  
QY 1204 GCACCTCAAAACCTTTGAATTAATGTTTACCAATTCCTAAAGGATGGAAGTCAATTAC 1263  
Db 568 GCTATCAATGACTTATTTTCGATGGCTTTTCAATACCAAGGATGGAAGTGTATGG 627  
QY 1264 AGCATCTGTGACAGCAGATGTGGCCGACGCTCTTTCACCAACAAAGAGAGGTTCCAGCGG 1323  
Db 628 AGTGCAATTCACACATAAAGTCCAGAATATTTCCAGAGCAGAGAAATTCGATCCA 687  
QY 1324 GAGAGATTCATGACAAAGTCTGGAGGAGGTTCCAGGTTTAACTACATCCCTTCGGA 1383  
Db 688 ACTAGATTCGAAGGACAGGGCCAG-----CTCCTTATCTTTTGTACCATTTGGT 738  
QY 1384 GGAGGATCCAGGATGTGTGTGGCAAGAGTTCGCCAAAGTGTGTTACTCAAGATCTTTTA 1443  
Db 739 GGAGGACCAAGGATGTGCCCCGGAAGAGATGCTCGATTGGAATATTTGGTTTTCATG 798

QY 1444 GTTGAGTTAAACGACGACATTGCAATTGG 1470  
Db 799 CACAACCTAGTGAAGAGGTTAAGTGG 825

RESULT 11  
US-10-181-108-47  
; Sequence 47, Application US/10181108  
; Publication No. US20040086854A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: YANG, Junming  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: BURFORD, Neil  
; APPLICANT: AU-YOUNG, Janice  
; APPLICANT: LU, Dyung Aina M.  
; APPLICANT: REDDY, Roopa  
; APPLICANT: RING, Huijun Z.  
; APPLICANT: HILLMAN, Jennifer L.  
; APPLICANT: YUE, Henry  
; APPLICANT: AZIMZAI, Yalda  
; APPLICANT: YAO, Monique G.  
; APPLICANT: GANDHI, Ameena R.  
; APPLICANT: NGUYEN, Dannie B.  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: LAL, Preeti  
; APPLICANT: YUE, Henry  
; APPLICANT: BANDMAN, Olga  
; TITLE OF INVENTION: DRUG METABOLIZING ENZYMES  
; FILE REFERENCE: PI-0007 PCT  
; CURRENT APPLICATION NUMBER: US/10/181,108  
; CURRENT FILING DATE: 2002-07-11  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: PERL Program  
; SEQ ID NO 47  
; LENGTH: 866  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 4109179CB1  
US-10-181-108-47

Query Match 4.2%; Score 77.4; DB 17; Length 866;  
Best Local Similarity 52.7%; Pred. No. 1.7e-11;  
Matches 168; Conservative 0; Mismatches 151; Indels 0; Gaps 0;  
QY 1124 TGGACGAGTGAAGTACACTGGATGTGTGATTAAAGAGACTCTTAGAATCAACCTCCTG 1183  
Db 215 TGAAGAACTTCGGTATCTGGAATGTGTTAAGGAGACCCTTCGCTTTTTCCTTCTG 274  
QY 1184 TCCCCGGAGGATTCAGATCGCACTCAAAACCTTTGAATTGAATGGTTACCAATTCCTA 1243  
Db 275 TTCTTTATTTGCCCGTAGTGTAGTGAAGATTGTGAAGTGGCAGGTACAGAGTTCTAA 334  
QY 1244 AAGGATGGAACGTCAATTTACAGCATCTGTGACACGCACGATGTGGCCGACGTCTTTCCAA 1303  
Db 335 AAGCACTGAAGCCGTATCATTTCCCTATGCAATGACAGAGATCCGAGATATCTTCCCA 394  
QY 1304 ACAAGAGGAGTCCAGCCGGAGAGATTATGAGCAAAAGTCTGGAGGAGGGTCCAGGT 1363  
Db 395 ACCCGAGGAGTTCAGCCCTGAGCGGTCTTCCCGAGAAATGCACAAGGCGCCATCCAT 454  
QY 1364 TTAATACATCCCTTCGGAGGAGGATCCAGGATGTGTGGCAAGAGTTCGCCAAAG 1423  
Db 455 ATGCTACGTGCCCTTCTCTGCTGGCCAGGAACTGTATAGTCAAAAGTTTGCTGTA 514  
QY 1424 TGTTACTCAAGATCTTTT 1442  
Db 515 TGAAGAAAGAACCATCT 533

RESULT 12  
US-10-142-231-49  
; Sequence 49, Application US/10142231  
; Publication No. US2003007796A1  
; GENERAL INFORMATION:  
; APPLICANT: Croteau, Rodney et al.  
; TITLE OF INVENTION: CYTOCHROME P450 OXYGENASES AND THEIR USES  
; FILE REFERENCE: 62773  
; CURRENT APPLICATION NUMBER: US/10/142,231  
; CURRENT FILING DATE: 2002-05-08  
; PRIOR APPLICATION NUMBER: 60/165,250  
; PRIOR FILING DATE: 1999-11-12  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 49  
; LENGTH: 1452  
; TYPE: DNA  
; ORGANISM: Taxus cuspidata  
US-10-142-231-49  
Query Match 3.9%; Score 73; DB 15; Length 1452;  
Best Local Similarity 43.4%; Pred. No. 4.9e-10;  
Matches 560; Conservative 0; Mismatches 710; Indels 21; Gaps 4;  
QY 217 CTACCGCCAGGTACCATGGCTTCCGCTTCATTGGAGAAAACGCTCCAGCT---GATCCTC 273  
Db 118 CTTCCACCTGGAATTTAGGCTTGCCCTTCATTGGGAGACATAAATTTGCATCTCAA 177  
QY 274 CAGAGAAGGAAGTTTCTGCGCATGAAACGGCAGAAATACGGTGTCATCTACAAGACGCAC 333  
Db 178 CCTCCTCAGAAAGTTTAAACGAGAGGGGGAAGAATTTGGTCTGTTTTTCAAGACGTG 237  
QY 334 CTCTTCGGGAACCCGACTGTCAAGGTGATGGGAGCTGATAATGTGAGGCAGATTCTGCTG 393  
Db 238 CTAATTGGGCATCCACAGTTGTTCTCTCGGGCTCCTCGGAAACCGTTTTCTCCTCTCC 297  
QY 394 GCGGAACACAAAGCTGGTGTCTGTTCACTGGCCAGCATCAGTGAGAACCATCTCTGGGCTCT 453  
Db 298 AACGAGGAAAGCTGGTGGGATGTCTTTCGCCAACTCATACATGAAACTCCTGGGCGAG 357  
QY 454 GACACCCCTCTCAATCTCCATGGAGTTCAACAAACAAAGAAAGGCCATTATGAGG 513  
Db 358 GATTCCCTTCTGGGAAACCGGACAGGAAACATCGGATTCGTCGCTACCGCACTAGGACGT 417  
QY 514 GCGTTCTCTCGAGATGCTCTGGAGCACTACATTCCTCGTATCCGTCATCCAGGAGGTGAAGC 573  
Db 418 TTTTGGGCCCCAAGAGTTGCAGAAATCATGTGGCCAAGATGAGTTCAGACATTACGAT 477  
QY 574 GCATACAGGAATGGCTCAAAAGACTCCTCGGTGCTGTTTATCCAGAAATGAAGAAA 633  
Db 478 CACATCAACCAAAATGGAAGGGGATGATGAAGTGAAGGTGCTTCTCTGATAAGGAAC 537  
QY 634 CTGATGTTTCGATAGCTATGAGAACTCTGCTGTTTGAACCAAGCAAAATAAAGACG 693  
Db 538 CTTGCTTCTCCATGCAACCAAGCTTGTGTTTTCGATATAACGATGAGCAACCAAGAG 597  
QY 694 GACGACAAAGAACTGGTGGAGCTTTTGAGGAATGATCAAAACTTGTCTCTCTGCA 753  
Db 598 CGACTTCATCTTCTTTTGAAGAACTATTG-----TAATGGAGCTGTGTATTCCG 648  
QY 754 ATCGAGTTCTCTTTCAGTGTGTGTACAGGGGTTTGAAGGCGCAATTTTCACTCTCC 813  
Db 649 CTGCGCTTTCAGGATCTGTTTTCGTAAGGCGCTTCAGGCGCTCGAGCTCGATGGA 708  
QY 814 AAAATTGAGGAAACATCAGGAAGAAATTCAGATGACGACAAATGAAACGAAACAGAAA 873  
Db 709 ATTCTCATCTTTTAATGAAATCAGAAAGCGATCTGCTTCAGGCGAGCTTCAAGC 768  
QY 874 TACAAAGAGCCCTTCAGCTGTGTGATCGAGAACAGCAGAAAGTACGAACTTTTAGT 933  
Db 769 AACCAAGATCTACTGTCGGTGTGCTCACCTTCAAGATGAAGAGGAAATCCATTGACA 828



QY	934	TTGCAGGCGATGAAAGAACGACGCTACAGAGCTTCTATTTGGAGGTCATGAACACCGCC	993
Db	829	GACAAGGAGATCCTCGACAACTTCTCTGTTCTACTTTCATGGCTTATATGACACCAAT	888
QY	994	AGCACTGCAACCTCACTTGTCTCATGTTCTGGTCTGAACACAGAAGTGGTGCAGAAGTC	1053
Db	889	TCACCACTCACCTTGATTTTAAGCTCATGCTCTCCAATACTGAATGCTACGGAATGTA	948
QY	1054	AGAGAGGAGGTTCAGGAGAGGTTGAAATGGGATGTATACCTGTGAAAGGGGTTGAT	1113
Db	949	GTCCAAGAGCAATTAGAAATFACCTTCCCATAGAGAGAA-----GGGAGAGGATCGGT	1002
QY	1114	ATGGAGCTGTTGGACCAGCTGAAGTACACTGGATGTGTGATTAAGAGACTCTTAGAATC	1173
Db	1003	TGGAAGGATCTGAATCTATGAAATATACTTGGCAAGCCATTCAGGAACCTTGAGAAATG	1062
QY	1174	AACCTTCCTGTTCCGGGAGGATTCAGATCGCACTCAAAACCTTTGAATGAATGGTTAC	1233
Db	1063	TTCCCTCCGGTTTACGGAAATTTTCGCAAGGCTTTGACTGATATTCATTACGATGGCTAT	1122
QY	1234	CAAAATTCCTAAAGGATGGAACGTCTATTTACAGCATCTGTGACACGCACGATGTGGCGAC	1293
Db	1123	ACAAATCCAAAAGGGTGGAGGGTTTATGTTCCCTTTTACCACGCACAGCAATGAAGAA	1182
QY	1294	GTCTTTCCTCAAAACAAGAGGAGTTCAGCCGAGAGATTATGACCAAAAGTCTGGAGGAC	1353
Db	1183	TATTTTAATGAGCCAGATGAATTCAGACCTTCAGATTCGAGGGCAAGG--AAAGAAT	1239
QY	1354	GGGTCCAGGTTAACTACATCCCTTCGGAGGAGGATCCAGGATGTGTGTGGGCAACAG	1413
Db	1240	GTGCTTCCTTACACATTCATACCGCTTCGGAGGCGGCTGCGCATATGTCAGGATGGAA	1299
QY	1414	TTGCCCCAAGTGTTACTCAAGATCTTTTGTAGTTAAGCTTAACGCGAGCATTCGAATGGATT	1473
Db	1300	TTTGCAAAAGACAGAGATGTTACTGTTTATACATTATTTGTTTAAACTTTTCAGCAGCTAC	1359
QY	1474	CTCTCAACCGACCCCCGACAAATGAAACAG	1504
Db	1360	GTCCGAGTTGACCCCAACGAAAAGATTTCAG	1390

## RESULT 13

US-10-356-153-49  
; Sequence 49, Application US/10356153  
; Publication No. US20030166176A1  
; GENERAL INFORMATION:  
; APPLICANT: Croteau, Rodney et al.  
; TITLE OF INVENTION: CYTOCHROME P450 OXYGENASES AND THEIR USES  
; FILE REFERENCE: 62773  
; CURRENT APPLICATION NUMBER: US/10/356,153  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: US/10/142,231  
; PRIOR FILING DATE: 2002-05-08  
; PRIOR APPLICATION NUMBER: 60/165,250  
; PRIOR FILING DATE: 1999-11-12  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn ver. 2.1  
; SEQ ID NO 49  
; LENGTH: 1452  
; TYPE: DNA  
; ORGANISM: Taxus cuspidata  
US-10-356-153-49

Db	178	CTCTCTCAGAAAGTTTTTAAACGAGAGGGGGAAGAAATTTGGTTCCTGTCTTTTCAAGACGTCG	237
QY	334	CTCTTTCGGGAACCCGACTGTACAGGTGATGGGAGCTGATAATGTGAGGCAGATTCTGCTG	393
Db	238	CTAATTGGGCATCCACAGTTGTTCTCTCGGCTCCTCGGGAACCGTTTCTCTCTCTCC	297
QY	394	GGCGAACACAAGCTGGTGTCTGTTTCAGTGGCCAGCATCAGTGAGAACCATCTCTGGGCTCT	453
Db	298	AACGAGGAAAAGCTGGTCGGATGTCTTTGCCCCAACTCATACATGAAGAACTCTCTGGGCGAG	357
QY	454	GACACCTCTCTCCAATGTCCATGGAGTTCAACACAAAAACAAGAAAAGGCCATTATGAGG	513
Db	358	GATTCCCTTCTGGGGAACCGGCACGGAACAATCGGATGTGTGCGTACCGCACACTAGGACGT	417
QY	514	GCGTTCCTCTGAGATGCTCTGGAGCACTACATCCCGTGTATCCAGCAGGAGGTGAAGAGC	573
Db	418	TTTTTGGGCCCCCAAGAGTTGCAGAATCATGTGGCCCAAGATGAGTTCAGACATTCAGCAT	477
QY	574	GCCATACAGGAATGGCTGCAAAAAAGACTCCTGGGTGCTGGTATTATCCAGAAATGAAGAAA	633
Db	478	CACATCAACCAAAAAATGGAAGGGAATGATGAAGTGAAGTGGTCTTCTCTGATAGAAGAAC	537
QY	634	CTCATGTTTCGGATAGCTATGAGAACTCTGCTGCTTGTGTTTGAACAGAGCAAAATAAGACG	693
Db	538	CTTGCTCTTCCATTGCAACCAGCTTGTCTTTCGGTATAAACGATGAGCACCAACAGGAG	597
QY	694	GACGAGCAAGAACTGGTGAAGCTTTTGAGGAATGATCAAAAACTTGTCTCTCTTGCCA	753
Db	598	CGACTTCATCTCTTTTGGAACTATTG-----TAATGGAGCTGTGTGATTCCG	648
QY	754	ATCGACGTTCCCTTTCAGTGTCTGTACAGGGGTTTGAGGGCAGCAATTTTCATCTCACTCC	813
Db	649	CTCGCTTTCAGGATCTGGTTTTCGTAAGCGCTTCAGGCACGTCGGAGCTCGATGGA	708
QY	814	AAAATGAGAAAACATCAGGAAGAAAATCAAGATGACGCAATGAAACGACAGAAA	873
Db	709	ATTCTCATTTCTTTAATGAAATCAGAAAGCGATCTGCGTTCAGCGCGCAGCTTCAAGC	768
QY	874	TACAAAGACGCCCTTCAGCTGTTGATCGAGAACAGCAGAAAGATGACGAACCTTTTAGT	933
Db	769	AACCAAGATCTACTGTGCGTGTGCTCACCTTCAAGATGAAGAGGAAATCCATTGACA	828
QY	934	TTCGAGGCGATGAAGAAGCAGCTACAGAGCTTCTATTTTGGAGGTGATGAACCAACCGCC	993
Db	829	GACAAGGAGATCCTCGACAACTTCTCTGTTCTACTTCTGCTTATATGACACCACAATT	888
QY	994	AGCAGTGAACCTCACTGTGATGTTCTGGGTCTGAACACAGAAAGTGTGAGAGGTC	1053
Db	889	TCACCACCTCACCTTGATTTTAAAGTCACTGCTCTCAATTAATGATGCTACGAGAATGA	948
QY	1054	AGAGAGGAGTTTCAGGAAGGTTGAAATGGGCATGTATACACCTGGAAGGGCTTGAGT	1113
Db	949	GTCCAAGAGCAATTAGAAATACTTTCCCATAGAGAGAA-----GGGAGGAGATCCGT	1002
QY	1114	ATGGAGCTGTGGACCGAGTGAAGTACACTGGATGTGTATTAAGAGACTCTTAGAATC	1173
Db	1003	TGGAAGGATCTGAATCTATGAATATATACTTGGCAAGCCATTTCAGGAAACCTTGAGAATG	1062
QY	1174	AACCTCTCTGTTCCCGAGGATTCAGAGTCGCACTCAAAACCTTTGAATTGAATGGTTAC	1233
Db	1063	TTCCCTCCGGTTTACGGAATTTTCGCAAGGCTTTGACTGTATTCATTACGATGGCTAT	1122
QY	1234	CAAAATTCCTAAAGGATGGAACGTCATTACAGCATCTGTGACAGCACGATGTGGCCGAC	1293
Db	1123	ACAAATCCAAAAGGGTGGAGGTTTTATGTTCCCTTTTACCAGCACAGCAATGAAGAA	1182
QY	1294	GTCTTTCCAAACAAGAGGAGTTCCAGCGGAGAGATTATGACCAAAAGTCTGAGGAC	1353
Db	1183	TATTTTAATGAGCAGATGAATTCAGACCTTCAAGATTCGAGGGCAAGG---AAAGAAT	1239
QY	1354	GGTCCAGGTTTTAACTACATCCCTTTCGAGGAGGATTCAGGATGTGTGTGGCCAAAGAG	1413
Db	1240	GTGCCCTCTTACACATTCATACCGTTTCGAGGCGGCTTCCGATATGTCCAGGATGGGAA	1299

1414 TTGCGCAAGTGTACTCAAGATCTTTTAGTTAGTTAAGCAGCAATTCGAATTGATT 1473  
1300 TTGCAAGACAGAGATGTTACTGTTTATACATATTTTGTAAACCTTCAGCAGCTAC 1359  
1474 CTCTCAACGAGACCCCGCAATGAAGAACAG 1504  
1360 GTCCCAAGTGTACCCCAACAGAAAGATTTTCAG 1390

RESULT 14  
US-10-425-114-12586  
; Sequence 12586, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 12586  
; LENGTH: 791  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: 701183718\_FLI  
US-10-425-114-12586

Query Match 3.8%; Score 70.6; DB 13; Length 791;  
Best Local Similarity 54.0%; Pred. No. 1.6e-09;  
Matches 198; Conservative 0; Mismatches 154; Indels 15; Gaps 2;

QY 1062 GGTTCAGGAGAGTTGAATGGCATGTATA---CACCTGGAAAGGGCTTGAGTATGGA 1118  
Db 63 GGTTCAGAGACACGAGAGATGCCAAGACAAAGGCCACGGCGGCTGACCTGGGA 122  
QY 1119 GCTGTTGGACAGCTGAAGTACACTGGATGTGTGATTAAGAGACTCTTAGAATCAACCC 1178  
Db 123 GGACCTGCACCGCATCAGGTTTCACATGGCGGTGGCCCTGGAGACGCTGCGAATGATCCC 182  
QY 1179 TCCTGTTCCGGAGGAGTTCAGAGTCGCACCTCAAAACCTTTGAATTGAATGGTTACCAAT 1238  
Db 183 TCCCATCTCGGCAGCTTCCGGCGGCGCTGGAGGACATCGAGTTTCGACGGTACTGCAT 242  
QY 1239 TCCTAAGGATGGAACGTCATTATACAGCATCTGTGACACGACGATGTGGCCGACGCTT 1298  
Db 243 CCCCAAGGGTGGCAGGTGTTCTGGGCGTCCAGCGTACGCACATGACCCGACATCTT 302  
QY 1299 TCCAAACAAGAGAGTTCAGCGCGGAGAGATTCATGAGCAAAAGGTCTGGAGACGGGTC 1358  
Db 303 CACGACCCCGACAAGTTCGAGCCGTCGCCGTTTCGAGAGCGGCGGCGCCCTACTCG-- 360  
QY 1359 CAGGTTTAACATACATCCCTTCGGAGGAGGATCCAGGATGTGTGTGGCAAAAGATTGCG 1418  
Db 361 -----TTCGTGGCGGTTCCGGCGGCGGCGAGAGGCTGTGCGCGGGATCGAGTTCGC 410  
QY 1419 CAAAGTG 1425  
Db 411 CAGGGTG 417

RESULT 15  
US-10-310-154-13  
; Sequence 13, Application US/10310154  
; Publication No. US20030233670A1  
; GENERAL INFORMATION:

APPLICANT: Edgerton, Michael D  
APPLICANT: Chomet, Paul S.  
APPLICANT: Adams, Thomas H  
APPLICANT: Ruff, Thomas G.  
APPLICANT: Agarwal, Ameeta K.  
APPLICANT: Ahrens, Jeffrey E.  
APPLICANT: Ball, James A.  
APPLICANT: Banu, G.  
APPLICANT: Bell, Erin  
APPLICANT: Boddupalli, Raghava  
APPLICANT: Deikman, Jill  
APPLICANT: Deng, Jinzhuo  
APPLICANT: Duff, Stephen M.  
APPLICANT: Galligan, Meghan M.  
APPLICANT: Hinchey, Brenda S.  
APPLICANT: Huang, Shihshieh  
APPLICANT: Johnson, G. Richard  
APPLICANT: Jung, Vincent  
APPLICANT: Kretzmer, Keith A  
APPLICANT: Laccetti, Lucille B.  
APPLICANT: Lai, Chao-Qiang  
APPLICANT: Lee, Gary  
APPLICANT: Lin, Jie-Yi  
APPLICANT: Liu, Jingdong  
APPLICANT: Lu, Bin  
APPLICANT: Luethy, Michael M.  
APPLICANT: Lund, Adrian  
APPLICANT: Madson, Linda L.  
APPLICANT: Malloy, Kathleen A.  
APPLICANT: McKiel, Christine L.  
APPLICANT: Miller, Philip W.  
APPLICANT: Padmavathi, Manchikanti  
APPLICANT: Parnell, Laurence D.  
APPLICANT: Start, William G.  
APPLICANT: Tennesen, Dan  
APPLICANT: Vidya, K.R.  
APPLICANT: Wang, Haiyun  
APPLICANT: Xin, Zhanquo  
APPLICANT: Xu, Nanfei  
APPLICANT: Yang, Chunzhi  
APPLICANT: Zeng, Xiaoping  
APPLICANT: Zhang, Qiang  
APPLICANT: Zhao, Yajuan  
APPLICANT: Zhou, Li  
TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants  
FILE REFERENCE: 38-15(52796)B  
CURRENT APPLICATION NUMBER: US/10/310,154  
CURRENT FILING DATE: 2002-12-04  
PRIOR APPLICATION NUMBER: 60/337,358  
PRIOR FILING DATE: 2001-12-04  
NUMBER OF SEQ ID NOS: 736  
SEQ ID NO 13  
LENGTH: 1925  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (29)..(1495)  
OTHER INFORMATION:  
US-10-310-154-13

Query Match 3.8%; Score 70.6; DB 16; Length 1925;  
Best Local Similarity 47.4%; Pred. No. 3.1e-09;  
Matches 245; Conservative 0; Mismatches 269; Indels 3; Gaps 1;

QY 968 TATTGGAGGTGATGAAACCCACGCCAGCACTGCACCTCATTGTTCATGTTTCTGGGTC 1027  
Db 897 TGTTGGAGCCATGAGACGCTCCATGGTATTACCGTCATCTCAAGTATCTGACTG 956  
QY 1028 TGAACACAGAAAGTGTGTCAGAGAGGTTCAGAGAGGTTTCAGGAGAGGTTGAATGGCA 1087  
Db 957 ACAACCCAAAGCTTTGCAAGAGCTGACAGAGGAGCAGAGAGATCTCCTGGAAA---GTA 1013

